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VOLUME VI.

Exhibit 92

CONSTRUCTION AND RECONSTRUCTION

5302

KANSAS GAS AND ELECTRIC COMPANY

April 23, 1931.

An Outline of the Development of the Generating and Transmission Facilities of this Company.

1910

The Kansas Gas & Electric Company, incorporated in December 1909 under the laws of West Virginia, acquired in March 1910 the properties of the United Gas Company, The Edison Light & Power Company and the Gas & Electrical Appliance Company of Wichita, Kansas, and certain securities of the Home Light, Heat & Power Company of Pittsburg and Frontenac, Kansas.

5303

The Company at once entered into a contract with the Arkansas Valley Interurban Railway Company for supplying power for operation of the interurban railway then under construction from Wichita north toward Newton and this commitment, together with a contract for supplying power to the Wichita Railway & Light Company, rendered the Wichita steam-electric plant, then existing, inadequate.

5304

In the Wichita plant there was one 750 kw vertical turbo-generator in good condition but the rest of the equipment was inefficient and, for economical operation, obsolete. The plant was poorly located for expansion and for condensing water so that with the program projected for this Company for ex-

pansion of its system along the new interurban railway and into surrounding territory, together with the prospective growth in the city of Wichita, it seemed short-sighted to attempt to expand further the then existing plant. At this time, after consultation with the executives of the American Power & Light Company, arrangements were effected whereby the Electric Bond and Share Company undertook to supervise plans necessary for the development of the Company. The Engineers of the Electric Bond and Share Company, after making a study of the situation and the plans of the Company for expansion, recommended the abandonment of the existing power plant site and the selection of a new site more favorably located with respect to condensing water, expansion and general suitability for power plant purposes. The Electric Bond and Share Company was thereupon commissioned to supervise the erection of such a plant together with the design of a transmission line along the interurban railway for the supplying of the contiguous territory and substations for the operation of the railway. 5305 5306

For the design of the plant itself, the Electric Bond and Share Company arranged with Messrs. Sargent and Lundy of Chicago for the preparation of detailed plans and specifications and provided the Superintendent of Construction for the plant work. It was decided to move the 750 kw vertical turbo-generator from the old station and to purchase two new 4000 kw horizontal turbo-generators, all to be located in a modern building and to purchase a complete new boiler equipment. There were four 5680 sq ft, 200 lb boilers installed, equipped 5307

for burning gas fuel but arranged for the use of
5308 oil for emergency fuel. The first unit went into operation in December 1910 and the second unit in March 1911. This plant, on test, developed about 200 kwh per barrel of oil or a kilowatt hour on 30.5 cu ft of gas (about 32,000 btu per kwh). This was a notable performance for that time.

For the eleven miles of transmission line required to supply the transformer stations for operation of the railway from Wichita to Valley Center, the design and specifications were prepared, the material purchased and construction supervised by the engineers of the Electric Bond and Share Com-
5309 pany. The voltage selected was 60 kv which at that time was about as high a transmission voltage as could be safely used for this service and decision to use it was the result of careful forethought and study of the needs for the system to which it was expected that this start would develop. The preparation of plans for this transmission line included designing and locating the structures for the overhead trolley and power feeders, and locating structures and the designing the switching and transmission stations for the railway substation.

5310 *1911*

After starting construction, it was decided to extend the transmission line twelve miles from Valley Center to Sedgewick and then to Van Arsdale. This was carried out by the Electric Bond and Share Company under the same arrangement as that applying to the eleven miles first authorized.

Exhibit 92

In October 1911 the property of the Electric Light & Power Company of Newton, Kansas, was acquired. The problem of providing for a permanent supply of electricity to Newton was submitted to the engineers of Electric Bond and Share Company for study and their recommendation was that the 60 kv transmission line be extended from Sedgewick to Newton for the normal supply of Newton but that the 500 kw turbine driven unit and certain other equipment from the old Wichita plant be moved to Newton and reinstalled there for stand-by service along with the 250 kw engine driven unit already there. This would require considerable remodeling of the old station. These recommendations were carried out the latter part of 1911, extending over into 1912. 5311 5312

At Wichita the Bond and Share engineers supervised the completion of the new steam electric station and its performance test. They also designed and supervised the construction of a substation at the plant for stepping up the generated voltage from 2300 volts to 60,000 volts for supplying the transmission line. Transformer and switching stations for this high voltage at that time were very few in number and the design of this station required considerable new development and pioneering work. 5313

In May 1911 this Company took over the property of the Home Light, Heat and Power Company of Pittsburg and also the Independence Electric Company of Independence, Kansas. The engineers of the Electric Bond and Share Company were again called upon to make a study of the situation in southeast Kansas. The 650 kw plant at Pitts-

burg, which supplied also Frontenac, was found to
5314 be loaded beyond its safe capacity and additional capacity was badly needed. Accordingly, the 400 kw Corliss engine driven unit was transferred from the old Wichita Station and installed at Pittsburg, bringing the capacity up to 1050 kw. This work was completed in 1912 under the supervision of the engineers of the Bond and Share Company.

1912

In June 1912 the property of the Cherokee Light and Power Company in Cherokee was acquired. An
5315 11 kv line was then built from Cherokee to Pittsburg in order to insure service at Cherokee. This was followed in September by the acquisition of the property of the Cherryvale Electric Light & Power Company at Cherryvale. The problem of supply for these towns in southeast Kansas was studied by the engineers of the Electric Bond and Share Company, at our request, and a very thorough field survey was made. The advisability of the construction of a new steam plant near Independence on the Verdegris River was studied very carefully but on their recommendation it was de-
5316 cided to build as a preliminary to this, an 8.6 mile 11 kv tie line between Independence and Cherryvale and to maintain in operating condition the 150 kw steam plant at Cherryvale. With the diversity and economies to be effected by this interconnection, the load would be handled by the existing plants until a new plant or an extension to the existing Independence plant could not longer be deferred. Specifications for this line were pre-

pared by the Bond and Share Company who supervised this construction. This work did not get under way until 1913 and was not completed until early in 1914. 5317

A "White Way" was authorized for operation in the downtown district of Wichita in 1912. As this was a more or less pioneering undertaking, there being very few of these "White Ways" in existence, the engineers of the Electric Bond and Share Company were called on for assistance in the designing of this "White Way". The work was done in 1912, carrying over into 1913, under the general supervision of the Electric Bond and Share Company. 5318

In 1912 the 60 kv line from Wichita was extended from Van Arsdale to Halstead and the Newton extension completed. The design of these additional lines and substations was carried out by the Bond and Share Company as a continuation of their original commission for the design of the 60 kv line from Wichita.

1913

As built in 1910, the Wichita plant was designed for gas fuel with emergency use of oil. A change in the relative costs of fuels came about in 1913 and as a result of a study of the relative economies of the various fuels made by the Bond and Share engineers coal handling and burning equipment were installed at Wichita during this year. 5319

As a result of the increasing load at Cherryvale a 150 kw steam driven unit was installed there.

The substations at Newton and Halstead as well as the Halstead line were completed in 1913.

Exhibit 92

In 1913, with the completion of the original
5320 "White Way" for Wichita, an extension was authorized for West Douglas. The design and construction of this extension was carried out under the same arrangements as for the original installation.

1914

The load in the Wichita district by 1914 had grown to a point where there was a shortage of boiler capacity. As a result, a study of this situation was made by the Electric Bond and Share Company followed by the installation, under their super-
5321 vision, of two additional 5860 sq ft, 250 lb boilers.

The growth of load in the Independence-Cherryvale district had increased by 1914 to a point where additional generating capacity was required. While tentative plans had been prepared for a large plant in the vicinity of Independence, a further study by the Electric Bond and Share engineers led to the decision that the necessary investment for a new plant should not be made at this time, so plans were prepared for the addition of another gas engine unit at Independence. With the installation of this engine and the resulting reconstruction of
5322 the older equipment, the result was a station with a dependable capacity of about 1000 kw.

1915

The load in the Pittsburg-Cherokee district by 1915 had reached the point where additional generating capacity must be provided. A study was made of this situation and as a result plans were pre-

pared for the removal of three old engine driven units and the installation of a 1000 kw turbo-generator at Pittsburg together with necessary condensing equipment etc. This plant extension involved extensive repairs to the old plant, installation of a new switchboard, rewiring the building and other reconstruction work, particularly in connection with the old boilers which were used for this new unit. The design and supervision of construction on this plant extension was carried out by the Engineering Dept. of the Electric Bond and Share Company. After this extension had been made, the Pittsburg plant had a peak capacity of about 1800 kw. Its dependable continuous capacity, however, was only about 1400. This work was not completed until the early part of 1916. 5323 5324

In 1915 the electric properties in Eldorado, Towanda and Benton were acquired and this Company was faced with the problem of supplying them with dependable service. The engineers of the Electric Bond and Share Company were called in and after a study of the situation plans and specifications were prepared for a 22 kv line originating at Valley Center and running east 32.75 miles to Eldorado with taps for the other two towns. The construction of this line was completed in 1915. The plans included a 60/22 kv step-down substation at Valley Center to supply this lower voltage system. The plans and construction work were carried out under the general direction of the engineers of the Bond and Share Company. 5325

Construction of an extension to the 60 kv line from Halstead to Burrton was completed in 1915, also 22 kv line between the generating stations at Cherryvale and Independence.

Exhibit 92

5336 During 1915 the electric property at Arkansas City was acquired including a combined hydro electric and steam station. The generating station and distributing system was the subject of a study by the Bond and Share engineers who found that no immediate changes were required in the generating equipment. This plant had a peaking capacity of about 750 kw with a continuous capacity of about 500 kw.

1916

5327 The 60 kv line to Burrton was extended 9.5 mi northwest to Buhler in 1916. A 22 kv line was started from Towanda south to Augusta (completed in 1917), an 18.5 mile, 11 kv extension was started from Newton to Hesston and Mound Ridge, this line also being completed in 1917 and in southeast Kansas an extension to the Independence Line was completed. Due to an increase in load in the Mulberry district north of Frontenac specifications were prepared and a 22 kv line constructed north from Pittsburg to Mulberry. This line was practically finished by the end of the year. All of this work was carried out after council with the En-

5328 gineers of the Electric Bond and Share Company.

The load in the Independence-Cherryvale district in 1916 was becoming dangerously close to the capacity of the generating stations and to take care of this situation, after a review of our plans by the Electric Bond and Share Engineers, another unit was installed in the Cherryvale Steam Plant. With the installation of this unit the dependable station capacity was brought up to 575 kw.

Exhibit 92

With the increase in load on the Pittsburg plant, cooling water conditions were unsatisfactory and 5329
a study of this situation by the Engineers of the Electric Bond and Share Company was requested by us. They found that on account of the restricted site, conventional cooling methods were impossible and accordingly they developed a type of cooling tower which, when installed, gave very satisfactory results. Also, they made a study of the advisability of equipping the boilers at this plant with stokers. However, after plans were completed the installation itself was deferred.

Minor changes made on the recommendation of 5330
the Electric Bond and Share Engineers, in the dam in the Little Arkansas River at Wichita helped the circulating water situation there materially.

In Wichita there had been a 500 v d-c system for the operation of elevators, printing presses, etc. In 1916, in spite of efforts to curtail this service, the load had grown to a point where regulation was poor and it became necessary to take steps to improve service. A study was made of this situation by the Bond and Share engineers and after considering and discarding the installation of larger feeders from the steam plant and a battery 5331
substation downtown it was decided to move a motor generator set from the steam plant and install it in the downtown district. This work was accordingly carried out.

Studies were made also by the Bond and Share engineers at the steam plant to improve steam pressure conditions in various parts of the plant. As a result of this study a modification of the piping was carried out consisting of an auxiliary tie between two portions of the steam header.

5332 While general check of the gas distribution had been made from time to time by Electric Bond and Share Company engineers, the distribution system in Wichita, by 1916, had gotten to the point where radical improvements were necessary. Accordingly a study was made of the system by the Bond and Share engineers, at our request, and as a result of their recommendation a very considerable rearrangement was made in the gas distribution system and a number of regulating stations installed.

1917

5333 The load in southeast Kansas had by 1917 developed to a point where an additional power supply was necessary. The engineers of the Electric Bond and Share Company at our request, made an extensive study to determine the best method of supplying this increased load. From this study it developed that it would be more economical to purchase the additional power required, from the Empire District Electric Co who had a surplus available than to make a large investment at this time in generating equipment. Negotiations for
5334 this power were accordingly carried with the Empire District Electric Company and a favorable contract closed. This contract required the Empire District Electric Company to supply power at 33 kv 25 cyc at two points, namely Cherokee and a point near Pittsburg. A 60 kv line to operate initially at 25 cyc was built by the Kansas Gas & Electric Company from Cherokee to Cherryvale and also in 1918, to the Western States Portland Cement Company's plant near Independence. In

addition to this two 33 kv 25 cyc lines were built between Pittsburg and Cherokee, a 33 kv switching station was built at Cherokee and a 6000 kva transformer bank was installed there stepping from 33 kv to 60 kv 25 cycle to supply the 60 kv line to Cherryvale and a point near Independence. A switching station was built on one of the 33 kv Pittsburg-Cherokee lines at the point where it connected with one of the lines of the Empire District Electric Company and a 33 kv 25 cycle switching station was built at the Pittsburg Steam Electric Station. Two 2500 kva frequency changer sets were installed, one at Pittsburg and the other at Cherryvale to convert 25 cycle power to 60 cycles. Installation was completed in 1918. 5335 5336

Substations were also built at this time at Parsons where a 938 kva frequency changer was installed, and at the substation of the Union Traction Company near Cherryvale; a substation too, was built to serve the Western States Portland Cement Company load. A 22 kv 60 cycle substation was then started at Cherryvale and completed in 1918, to serve the Coffeyville Brick Company and a 22 kv 60 cycle line was constructed between Cherryvale and Independence with a 22 kv 60 cycle substation at Independence. This 22 kv line between Independence and Cherryvale was constructed jointly with the 60 kv 25 cycle line extending from Cherryvale to the Western States Portland Cement Company tap. 5337

Specifications for the lines, general substation layouts and equipment purchases, necessary to effect these Empire Company connections were made by the Electric Bond and Share Company,

the details being carried out by our local engineers
5338 under their general supervision.

With the discovery of oil in the Eldorado district and the resulting increase in load, it had by 1917 become apparent that better service must be furnished to that district. Accordingly, the Bond and Share engineers were called into consultation and after a decision was made to build a new 22 kv line from Wichita to Augusta and Eldorado, a distance of 38 miles, they were asked to prepare specifications for this line and construction proceeded to completion in 1917.

5339 A tap from the 22 kv Valley Center-Eldorado line was built in 1917 10.5 miles to the towns of Potwin and White Water and also the Towanda-Augusta 22 kv line was completed. Substations and distribution systems were also installed for these towns. An extension to the Valley Center Substation was also made.

The load in the Wichita district as well as the load in the Eldorado district had grown to a point where it became necessary, early in 1917, to consider an increase in the power supply for that district. Accordingly, a study of this situation was
5340 made by the Electric Bond and Share Company, at our request, and as a result of this study the recommendation was made and agreed to by us that the capacity of the Wichita Station be increased by the addition of a 10,000 kw steam turbo-generator unit. Accordingly, the Electric Bond and Share Company was instructed to prepare plans for the installation of this unit. As in the case of the original plant, they made arrangements with Messrs. Sargent and Lundy for the preparation by

them of detailed drawings for the installation of this unit under the supervision of the Electric Bond and Share Company. With the 10,000 kw unit the plans called for the installation of two 5680 sq ft, 250 lb boilers. In order to insure proper cooling there was designed and installed with this unit a spray pond for cooling the circulating water. The water pressure for operating the sprays was obtained by means of a 45 cfs spray pump in a separate building adjacent to the plant. The construction work, under way during the greater part of 1917, was carried out by the Phoenix Construction Company and completed by them. The unit went into service in April 1918. 5341 5342

The load in Wichita had been growing so rapidly that in 1917 it became apparent that rather radical improvements were in order. The Bond and Share engineers were called into consultation and they, with the engineers of this Company, made a complete study of the Wichita distribution system. As a result of this study the decision was made to convert the 2300 v 3 wire system originally installed to a 4000 v 4 wire system. This newer system permitted an output of, roughly, twice that of the 2300 v system with a comparatively small expense for rearrangement and the installation of a neutral wire. General plans were prepared by the engineers of the Bond and Share Company and the conversion of the distribution system effected under their general supervision. 5343

Considerable help was also rendered the engineers of this Company by the Electric Bond and Share Company in the application of electric drive to drilling rigs in the Eldorado oil field.

Exhibit 92

The load at Arkansas City was increasing rapidly
5344 and after careful study by the engineers of the Bond and Share Company they recommended and we agreed to, the removal of the 750 kw vertical turbine from the new Wichita plant and its reinstallation at Arkansas City together with two additional boilers to be purchased in the second-hand market. The work also included a new concrete stack, installation of miscellaneous mechanical and electrical equipment and an extension to the building. Plans for the increase in station capacity were prepared by the Electric Bond and Share Company who supervised the installation by the Phoenix
5345 Construction Company of this unit with its boilers and auxiliaries. This unit was placed in service in May 1918 and brought the continuous capacity of the plant up to 1250 kw with a peak capacity of about 1500 kw.

A flood in the river at Arkansas City in 1917 did considerable damage to the canal and hydraulic works at the plant calling for considerable reconstruction work.

Due to the rapid expansion in the activities of this Company, it was felt that a stronger local or-
5346 ganization should be built up capable of handling more of the Company's design and construction work from Wichita. With this end in view the Electric Bond and Share Company was asked to recommend to us an engineer qualified to take charge of the Engineering Department of this Company. They were able to recommend such a man from their organization and he was accordingly employed as Chief Engineer of the Company, reporting in July of 1917.

Exhibit 92

1918

5347

The early part of 1918 saw the construction work in southeastern Kansas, required by the Empire district interconnection, completed. The load in the Eldorado district was increasing so rapidly that it was decided to reconstruct the 13 mile line from Valley Center to White Water Junction to adapt it to 60 kv operation, to build on 11.5 miles to Porter, and to build a new 60 kv substation at Porter to serve the 22 kv load in that district, moving the Valley Center transformers to Porter. A 22 kv, 5 mile line from White Water to Potwin and a substation at Potwin were also built. General 5348
plans for this work were prepared by the Electric Bond and Share Company but design and the construction work were carried out by our own engineers.

With the installation of the 10,000 kw unit (No 3) at Wichita it was decided to defer the installation of two of the boilers until such time as load increases made the installation necessary. However the load increased so rapidly that by 1918 the installation of two 5680 sq ft 250 lb boilers (Nos 9 and 10) were authorized. Plans were prepared and the 5349
boilers installed under the same engineering and construction arrangements as were in effect for the installation of the 10,000 kw turbo-generator unit (No 3).

At Cherryvale two old steam units were removed and a 380 kw gas engine driven unit installed bringing the dependable capacity of the plant up to about 800 kw.

Exhibit 93

1919

5350

During 1919 with the rapid increase in load in the Wichita district and particularly in the Eldorado oil fields a study was made to determine the best method of taking care of these load increases. It was obvious that additional generating capacity would be required and as a result of this joint study by our engineers and those of the Electric Bond and Share Co. the installation of an additional 10,000 kw turbo-generator unit was decided upon for installation in the Wichita plant. Electric Bond and Share Company was commissioned to

5351 make plans for the installation of this unit and the Phoenix Construction Company was commissioned to carry out the construction under the general supervision of the Bond and Share Company. This unit went into service in August 1920. This 10,000 kw unit (known at No. 4) was complete with two 11,900 sq ft boilers with superheaters and economizers. At this time boilers No. 7, 8, 9 and 10 were equipped with economizers and an additional steel stack was provided. Both boiler and turbine rooms of the main building were extended to accommodate this new equipment. A second 45 cfs pump for

5352 supplying the spray pond cooling system was installed in an addition to the pump house; the spray pond was enlarged to take care of the addional cooling required for the new unit.

The main fuel oil storage at Wichita was in tanks several miles from the plant and considerable trouble was experienced in getting this fuel to the plant through the existing 3 inch line. A study of the situation was made and on the recommendation of the Bond and Share engineers the 3 inch line was replaced by a new 5 inch line.

Exhibit 92

In connection with the plant extension additional 4,000 kw, 60 kv transformers were purchased and 5353
installed and the switching structure at the plant enlarged to accommodate the transformers together with an additional 60 kv line out of the plant.

At Arkansas City even with the installation of the 750 kw unit the load was growing to such a point that a study was made at our request by the engineers of the Bond and Share Company to determine whether additional capacity should be installed at the plant, or whether a line should be constructed to the Wichita district for normal service utilizing the existing plant as stand-by. The 5354
load in the Augusta-Eldorado district was also increasing and this situation was incorporated into this study. The result was the recommendation, to which we agreed, that the Wichita-Augusta-Porter 22 kv line be reconstructed for 60 kv operation and that a 60 kv line be built from the Augusta switching station just west of Augusta to Arkansas City. A 60 kv line was also to be built from Towanda to Peabody Substation but operated initially at 22 kv.

This study indicated the necessity for a synchronous condenser in the Eldorado district and included 5355
in this transmission program was the installation of a 3500 kva condenser at Porter; this was done along with the balance of the substation program.

In order to take care of load growth in the Pittsburg district the 2500 kva 25/60 cyc frequency changer set at Cherryvale was to move to Pittsburg and a new 1250 kva 25/60 cyc frequency changer set was installed at Cherryvale; provisions were made for a future 1250 kva set to be installed here.

Exhibit 92

Specifications and plans for line reconstruction,
5356 the new line south to Arkansas City and designs for the necessary substations at Arkansas City, Augusta and the other points involved as well as for the frequency changer shift, were prepared by our engineers, incorporating however the recommendations of the Bond and Share Company. All of the construction was carried out by the forces of the Kansas Gas & Electric Company.

This work was well under way in 1919 and was in the main, carried to completion in 1920.

1920

5357

In the Pittsburg district a number of additional 22 kv lines were built for supplying large power customers. Owing to the increase in size of the electric power shovels used, voltage regulation troubles were becoming bad. These were largely due to the operation of a large power shovel owned by the Pittsburg and Midway Coal Company. At our request an Electric Bond and Share engineer made a study of this situation with the result that remedial measures were effected and satisfactory service resulted.

5358 Following the completion of the 60 kv system from Valley Center to Porter Substation, the conversion to 60 kv of the line from Towanda to Peabody Substation was effected in 1920 and a 2100 kva transformer bank installed at Peabody Substation. The voltage of Porter-Eldorado line was at this time, dropped from 22 kv to 11 kv.

From 1918 to 1920 studies of the hydraulic works at Arkansas City were made from time to time

by engineers of the Electric Bond and Share Company and on their recommendation improvements 5359
in the head-works and capacity of the canal were effected, gauging stations were maintained and a considerable study made of the hydraulic records. In 1920 one of the vertical water wheel turbines had so depreciated that it was decided to replace it by a modern unit of 500 hp directly connected to a 350 kw generator. Plans for this work were prepared and the construction followed by the Engineering Department of the Electric Bond and Share Company.

1921 5360

With the increase in load in the Wichita district and the ability to buy spot oil in quantity, after a study by the engineers of the Electric Bond and Share Company it was decided to increase the fuel oil storage facilities by the erection of another storage tank at the northern edge of the city of Wichita. This work was carried out immediately.

1922

A flood in the Arkansas River in 1922 again 5361
caused damage to the bridges over the canal supplying the hydraulic plant at Arkansas City. Since these bridges were old it was not considered advisable to continue to repair them but complete designs were made up by us based on the original designs made by the Electric Bond and Share Company in 1917 but not used. Our new designs were carefully checked by the Electric Bond and

Share Company and the bridges installed. Along
5362 with the bridges a head gate for the control of the water in the canal was installed.

The load in the western division was continuing to grow to a point where it was apparent that a generating station would shortly be required beyond the capacity of any station which could be located on the site selected in 1910 for the existing station. Accordingly, the Electric Bond and Share Company was commissioned to canvass the entire power supply and transmission situation and to make recommendations for a development plan on a scale commensurate with the company's operations. Their engineers accordingly made a field investigation to determine possible plant sites. After a study, they reported that no satisfactory combination of fuel and circulating water in sufficient quantity to justify the starting of a new development could be found better located than the Neosho River in the neighborhood of Parsons. With a plant at this site it would be able to supply both the east and the west portions of the Company's system.

5363

A fuel expert from the Electric Bond and Share Company investigated the supply of coal in the general district tentatively selected for this proposed plant. He carried on a field reconnaissance, directed extensive diamond drilling and, based on the results obtained in his exploration of about 5000 acres of coal land, recommended the purchase of the best of this which was located within about ten miles of the point where the St. Louis and San Francisco Railway crosses the Neosho River. This land is underlayed by coal seams from one

5364

to two feet thick and suitable for mining by the strip method. The amount purchased, roughly 5365
1500 acres, was estimated to supply a plant of the size contemplated for about fifteen years, the aggregate being three to four million tons. Estimates were also made of the cost of mining this coal and loading it on freight cars.

With an abundant supply of coal located, the best location for a plant seemed to be on the Neosho River at a point below Parsons where a spur could be constructed from the St. Louis and San Francisco Railway.

With a plant to be located on the Neosho River, 5366
it would be necessary to deliver a large part of the output to the Eldorado Wichita district. These engineers made a thorough study of the problem presented by these conditions and as a result of their recommendations it was decided that a double circuit 132 kv line should be built from the proposed steam plant at Neosho to Porter Substation now called Midian Substation. This site was accordingly recommended by the engineers as the next step in the development of power for the Kansas Company. After careful consideration, the recommendations of the Engineering Dept. of the 5367
Electric Bond and Share Company were agreed to and the Electric Bond and Share Company commissioned to proceed with the designing of a power plant at this location and arrangements made with the Phoenix Utility Company for the construction work involved and the installation of the unit.

The Electric Bond and Share Company was also commissioned to prepare plans and specifications for the transmission lines and for the terminal

substation at Midian. The substation at the Neosho
5368 plant was carried out as part of the plant construction.

At the Midian Substation a 7500 kva synchronous condenser to be installed in addition to the 3500 kva condenser installed in 1919 was to control the regulation of the line. The construction of the plant, the 132 kv line and the terminal substation was entrusted to the Phoenix Utility Company, the work to be done under plans of the Electric Bond and Share Company and under their supervision. All of this work was under way during 1922. The line and the Midian Substation were
5369 placed in operation at 60 kv in August 1923 but the 15,000 kw generator at Neosho did not go into service until January 1924.

Drawings for a 60 kv transformer and switching structure for Pittsburg and for a switching structure for Cherryvale were prepared by the Engineering Dept. of this company and after a check by Bond and Share engineers these projects were carried out.

This Company built a 22 kv line in the Elk River Valley from Independence to Grenole with tap
5370 lines and substations from supplying a number of small towns; this after advising with engineers of the Bond and Share Company.

A 3500 kva synchronous condenser was installed at Peabody Substation in 1922 for power factor correction. Specifications were prepared and the purchase was made by Electric Bond and Share Company. The construction work was carried out by the forces of the Phœnix Utility Co. Plans were also prepared for a 60 kv substation at Potwin; the Construction work was started in 1922 and completed in 1923.

Exhibit 92

1923

5371

The Neosho plant consisted of a 15,000 kw turbine, condenser, three 12,000 sq ft boilers each with 3200 sq ft integral economizers, and other plant auxiliaries. In order to be assured of condensing water during low water periods a cooling pond was provided for recirculation of the water in the river. This plant was of relatively simple design and of moderate cost and it has proved reliable in operation and shown excellent economy.

The Neosho-Midian line went into service initially at 60 kv since this voltage was sufficient to transmit the output of the first Neosho unit.

5372

A study was made by the engineers of the Electric Bond and Share Company of the economies and general operating conditions at the Wichita plant, during 1923. As a result of this study the installation of improved mechanical oil burners was recommended and carried out. Also, plans were prepared by the same engineers for improvements to the condensing water works on the Little Arkansas River at Wichita.

During 1923 another extensive study was made by the Bond and Share Company of the possibility of a more effective interchange of power with the 25 cycle system of the Empire District Electric Company in Cherokee County. The studies contemplated firm power interchange between the two companies with staggered installation of generating units. The actual interchange on this basis, however, was not carried out until some time later.

5373

Exhibit 92

During the latter part of 1923 a study was made
5374 and designs and specifications prepared for the construction of a 80 kv wood pole transmission line from Cherryvale via Buffville to Fredonia with substations at Buffville and Fredonia. A 12 kv line was built from Neosho to McCune.

A seventeen mile 60 kv transmission line was constructed during this year from Cherryvale to Coffeyville with additional switching at Cherryvale and a substation at Coffeyville to serve additional load at Coffeyville. This line went into service in December. 11 kv lines were built to supply the towns of Douglas and Belle Plain,
5375 also a customer in the vicinity of Mulvane. 11 kv line and a substation were also built for the A. C. N. W. Railway north of Arkansas City.

The Cherokee 33/60 kv 25 cyc substation was taken out of service in 1923 upon completion of the Neosho-Midian Line and one of the Pittsburg-Cherokee 33 kv lines originally constructed for 60 kv was changed over to that voltage at 60 cyc. The 6000 kva 33/60 kv 25 cyc transformer bank was removed from Cherokee and rewound for 60 cyc service and suitable voltages and later installed at Pittsburg. The 60 kv 25 cyc Cherokee-
5376 Independence transmission line was changed over to 60 cyc operation. The frequency changer sets which had been installed at Parsons and Cherryvale were removed and later sold. The Union Traction Co. substation was discontinued as the load on that substation had dropped off so that we could no longer warrant serving this load at 25 cycle.

In the Eldorado District a 3500 kva synchronous condenser was installed at Peabody Substation in

Exhibit 92

1923. Specifications were prepared and the purchase was made by Electric Bond and Share Company. The construction work was carried out by the forces of the Phœnix Utility Co. under the supervision of the Electric Bond and Share Company. Plans were also prepared for a 60 kv substation at Potwin and construction work on the substation was started in 1922 and completed in 1923. During this period the No. 4 copper conductor on the Valley Center-Midian 60 kv line was replaced with 266,800 cm ACSR. Plans and specifications for all of this work were discussed with the engineers of the Electric Bond and Share Company and their ideas coordinated with our own. All of these lines and substations went into service in 1924. 5377 5378

As a result of the changes the southeastern Kansas district was now served by our own generating stations, principally Wichita, until Neosho went into service and the 33 kv 25 cyc connections with the Empire District Electric Co. provided for emergency service only through the frequency changer sets at Pittsburg.

1924 5379

The Neosho Steam Electric Station went into service in January 1924 and the Cherryvale-Fredonia and Neosho-McCune lines were put in service soon after; the Verdegris 60 kv sub at Independence was also completed.

The load in the Pittsburg-Mulberry district had been growing and territory expanding for some time and in this year construction of a 60 kv line

was started from Pittsburg to Mulberry, 14.5 miles,
5380 with substations at Midway and Mulberry. This line was completed and went into service in 1925. Also, a number of short 22 kv lines were built in the Pittsburg district.

During 1924 the load was increasing also in the Eldorado district and plans were made for the abandonment of the Augusta Switching Station and for the construction of a new substation at Augusta for the more effective relaying and operation of the transmission system; this was completed early in 1925. The Augusta-Leon 13.3 mile line and the Arkansas City-Geuda Springs 6 mile
5381 line, both for 11 kv service, were also completed.

While plans for all of this work were made in this office, the Electric Bond and Share Company was called upon for suggestions and criticism of these designs as they progressed.

During the winter of 1924-25 a survey was made by the Bond and Share Company to determine ways and means for the improvement of the service over the 60 kv wood pole lines between Midian and Wichita. As a result of this survey considerable reconstruction was carried out for the improvement
5382 of the lines.

During 1924 contract was made, subject to ratification of the Public Utilities Commission, for the sale of all of the gas distributing properties of the Kansas Company. During negotiations for this contract the engineers of the Bond and Share Company were called in and a large amount of valuable assistance rendered in connection with the negotiating of the sales agreement.

Exhibit 92

1925

5383

Early in 1925 decision was made to place the company's distributing system in the Wichita downtown district underground. In order to take advantage of the rapid progress in the art of underground distribution, a request was made to the Engineering Department of the Electric Bond and Share Company that they assign an engineer to direct here in Wichita, the necessary study for this work. This request was complied with. The data and preliminary plans were prepared and after a review by the New York Office of Electric Bond and Share Company, the construction of the underground system was started late in 1925 in accordance with these plans and specifications.

5384

The recommendations of the engineers included the elimination of the 500 v d-c system in the underground district. The elimination of this service in the underground facilities reduced considerably the cost of the underground work.

The increase in load for the Kansas system through 1924 was so rapid that some uneasiness was felt about the ability of the company to carry the load during 1925.

5385

After a survey of the load situation during 1924 it became apparent that additional capacity would be required before the fall of 1926. Early in 1925 therefore, the Engineering Department of the Electric Bond and Share Company was asked to make a study with recommendations as to the next step to be taken. Another unit at Neosho would require a large capital outlay and it developed that No. 2 (4,000 kw) turbo generator at the Wichita plant

had developed mechanical troubles and its economy
5386 was so poor that the expense of rebuilding the turbine could not be justified. After estimates and performance figures were prepared, it was the recommendation of the consulting engineers that this unit be removed from service and a new 6,000 kw unit placed in its stead, using the old condenser and making the necessary piping changes to permit a steam pressure of 225 lbs. It was necessary also to reinforce and lengthen the Little Arkansas River dam at the plant and considerable reconstruction work was carried out. Plans and specifications for all this work were prepared by Elec-
5387 tric Bond and Share Company and the recommended construction was carried out by the Phœnix Utility Company. The new unit went into service in December 1925.

In the Arkansas City district, by 1925, service interruptions were becoming serious. A joint study of this situation was made by the Engineers of the Electric Bond and Share Company and our engineers to determine the best means for overcoming this condition. As a result of this study it was decided that a second transmission line should be
5388 built to Arkansas City, this line to come directly from the Wichita Steam Electric Station, and with the assistance of Bond and Share engineers we drew up plans and specifications for this line and for the necessary switchboard and substation changes at Arkansas City and at the stepup station at Wichita.

Another transmission development which was started in 1925, after discussions with the Engineering Department of the Bond and Share Company,

was the extension of the 60 kv line north from Mulberry to interconnect with the system of the Kansas 5389
Utilities Company at Bourbon Junction. This work was completed early in 1926.

The sale of gas properties was approved by the Public Service Commission and carried out in 1 25.

The rapid growth of the transmission system had rendered many of the oil circuit breakers and relay schemes inadequate. It was therefore decided to make a short circuit study of the system. This study was undertaken by our engineers under the direction of the Electric Bond and Share Company and data obtained for determining oil circuit breaker capacities and for improvement of relay schemes 5390
with resulting improvement to service.

1926

The Wichita-Arkansas City 56 mile, 60 kv transmission line went into service early in 1926. Construction work on the underground system at Wichita continued, the ducts and manholes being practically completed and cable pulling started by the end of the year. The Mulberry-Ft. Scott line was completed early in the year. Goddard, Cheney and Garden Plain were acquired and considerable 11 5391
kv development was carried out in connection with these and smaller loads.

It was evident, early in 1926, that additional generating capacity for the system would be required by the Fall of 1927. Accordingly, a check was made of the water and fuel resources by the Electric Bond and Share engineers bringing up to date the previous studies of the power development for this

system. As a result of this study, the recommenda-
5392 tion of the Bond and Share engineers was adopted and construction work on the installation of an additional 25,000 kw unit for the Neosho plant started. The construction work was to be carried out by the Phoenix Utility Company under the general supervision of the Electric Bond and Share Company.

With the authorizing of the addition to the Neosho plant an interchange agreement with the Empire District Electric Company was negotiated, the negotiations extending thru 1926 to the actual signing of the agreement in April 1927. This con-
5393 tract included as interconnecting transmission line on steel towers between the Neosho plant and the Riverton plant of the Empire Company. The agreement carried an obligation on the part of the Empire Company to provide a 25,000 kva, 25/60 cycle frequency changer set at Riverton for the interchange, and the installation by this (Kansas) Company of a third new boiler at Neosho in addition to the two originally planned with the new turbine. These boilers were 12,000 sq ft each, with a 5900 sq ft economizer. The engineers of the Electric
5394 Bond and Share Company were called into consultation and were largely responsible for the working out of this interchange agreement.

After consultation with the engineers of the Electric Bond and Share Company plans and specifications were prepared and construction started on a 60 kv line from Newton to the Peabody Substation. This provided duplicate service to these two stations.

Exhibit 92

Owing to the rapid growth of load in the oil fields in Oklahoma south of Arkansas City, this Company 5395
was approached by the Oklahoma Gas & Electric Company with a view to the execution of an interchange agreement which would include complete interchange facilities with that Company and the sale to that Company, for a short period, of a considerable amount of power. An interchange agreement along these lines was worked out during 1926. The engineers of the Electric Bond and Share Company were called upon for assistance both in the negotiations for the contract and in the preparation of plans for the lines and substations required for 5396
carrying out the agreement. A 10,000 kw autotransformer was accordingly purchased and installed in conformity with the general plans outlined by Bond and Share engineers and as a part of the interchange agreement, a line was built south from Arkansas City to the State line to connect with a similar line which was built north by the Oklahoma Company. This work was started towards the end of the year.

1927

The 25,000 kw turbo-generator being installed 5397
at Neosho by the Phoenix Utility Company was placed in service in October. The plant extension, however, was not completed until early in 1928. With the addition of the second unit, consideration was given to the complaints which had developed on account of backing up of water in the Neosho River during times of flood. A survey of this situation was undertaken by the engineers of the Bond and Share Company at our request and an

engineer from that office was assigned to make a
5398 field survey and study of flood conditions. As a result of this study remedial measures were undertaken and the best means for handling not only the present plant extension but future plant extensions were worked out.

The Newton-Peabody line, the interchange with the Oklahoma Gas & Electric Company at Arkansas City and the underground network system in Wichita were all completed and placed in successful operation during 1927.

The Augusta-Leon 12 kv line was changed to 60 kv and Rose 60 kv Substation was built for serving
5399 the Leon-Eldorado oil field. The Towanda-Peabody 60 kv line was routed into Midian giving improved service to Newton and Peabody. Solvay Substation was installed on the Grenola 22 kv line. All of this work was designed and carried out by our forces after general discussions with the engineers of the Bond and Share Company.

During 1927 the Bond and Share engineers collaborated with those of this company in a study of the Wichita distribution system. Various schemes were studied for successfully handling the growing
5400 load in Wichita but a decision as to the plan to follow was not made until the following year.

With the desirability of improving service and in view of the widespread interest in the problem of lightning and its effect upon service, this Company undertook some preliminary field investigational work. This work was coordinated by the Electric Bond and Share engineers with similar activities on a number of the other systems under Electric Bond and Share supervision. At the close of the

season a general conference was held, at which time reports and complete information were interchanged. 5401

1928

The double circuit 132 kv steel tower transmission line from Neosho to Riverton, designed for 132 kv, was placed in operation in February at 60 kv in accordance with the interconnection agreement with the Empire District Electric Company but owing to a slump in the zinc mining operations in that district, it was not placed in regular service but maintained as an emergency connection. 5402

The Neosho-Midian 132 kv transmission line was equipped with steel reinforced aluminum conductor and the entire construction was in accordance with the best known practice at the time it was built. However, after about five years of service there developed breaking of conductors at the clamps on account of high frequency vibration in the line wires induced by sustained winds. The engineers of the Bond and Share Company were asked to make a study of this phenomenon which they did in conjunction with engineers of the manufacturer and as a result of this study it was found advisable to equip the suspension clamps with vibration dampers. This work was carried out by our forces, in accordance with the recommendations of the Bond and Share engineers during the latter half of the year. This work was not completed until the Spring of 1928. 5403

Mention has been made of the study of the distribution system at Wichita. As the result of this

joint study between our engineers and those of the
5404 Electric Bond and Share Company, the decision was made in 1928 to discontinue the building of 4 kv lines out of the power plant and to establish a series of 12,000/4,000 volt, substations throughout the city where the 4 kv lines would originate. These substations were to be fed by 12 kv feeders from the power plant.

However, facilities at the plant for handling these 12 kv outgoing lines were inadequate. Designs and specifications for a steel switching structure for handling them were prepared, at our request, by the Electric Bond and Share Company and con-
5405 struction started by our forces. The Bond and Share Company ordered for us, a 5,000 kva 4/12 kv transformer, making 12,000 kva total, together with other equipment necessary for the construction of the switching structure.

In 1928 the Wichita-Arkansas City line was used for lightning investigational work. The lightning insulation strength of a section of the line was materially increased, based upon extensive tests conducted by the engineers of the Electric Bond and Share Company in cooperation with a number of operating companies. Surge voltage recorders
5406 were installed on the line and valuable data obtained. At the close of the season, a conference was held at which time complete information and reports were exchanged between the various operating companies, who had been conducting investigational work in a coordinated and cooperative manner.

Exhibit 92

1929

5407

The 3500 kva condenser which had been rebuilt after a fire at Peabody, in 1929 was moved to Arkansas City and installed there, the installation being completed in 1930.

At the Wichita plant, work on the substation for supplying 12 kv circuits to substations and to large customers was completed during 1929.

The Neosho-Midian line, although designed and insulated for 132 kv, was initially placed in operation at 60 kv as hereinbefore described. In 1929, however, owing to increase in the load in the central district, it was decided, after consultation with 5408
the engineers of the Bond and Share Company, to raise the voltage to 132 kv. Preparations for this change were under way throughout the latter half of 1929. In connection with this change in voltage the Midian switching structure was extended and a 20,000 kva transformer bank installed for stepping down from 132 kv to 60 kv to supply the outgoing lines. The plans for the changes at Neosho Switchyard and at Midian Substation and the purchase of transformers for Midian made necessary by this voltage change were done at our request by the 5409
Electric Bond and Share Company.

The increased load in the Independence district caused a study to be made of the transmission situation there. As a result of this study it was decided, early in 1929, to build a new 60 kv line from Neosho directly to Independence to supplement the existing transmission facilities. Plans for this line were prepared by us after discussions with the Bond and Share engineers.

Owing to the increase in load in the Wichita underground district a fifth feeder was built from

the plant tying into the network system. The design
5410 for this work was coordinated by the Bond and Share engineers with the designs for the original underground system.

Additional warehouse facilities at Wichita had been under discussion and had been more or less studied for several years. In 1929 it was decided that a warehouse and service building should be constructed. Designs for this building were prepared by our engineering dept. At our request, these designs were reviewed by the Engineers of the Electric Bond and Share Company and their suggestions incorporated in the drawings. The
5411 construction of this building was done by the Phoenix Utility Company.

The lightning investigational work was continued in 1929 with slight modifications resulting in the accumulation of more data on lightning as it influences the performance of transmission lines. A general conference, including representatives of the various manufacturing companies and other utilities was held in New York being sponsored by the Engineering Dept. of the Electric Bond and Share Company. At this meeting complete infor-
5412 mation was again interchanged.

1930

Owing to the increase in load at Wichita a 12 kv substation was constructed in south Wichita in conformity with the plan for 12 kv distribution heretofore mentioned. The design for this station was carried out by the engineers of this Company. The 12 kv line work was well under way by the end of 1930 and the substation practically completed. The Wichita service station construction was almost finished by the end of 1930. A number

of new transformer vaults were required by the rapid growth of the load in the underground district. 5413

An interconnection was completed in 1930 with the United Power & Light Company at Hutchinson and with the same company at Peabody for emergency service to them in Florence territory. 60 kv connections were effected at each place, the designs for this work being prepared by engineers of this Company after consultation with the engineers of Electric Bond & Share Company.

Early in January an engineering study to determine the best method for improving service in the Pittsburg-Mulberry distrist was made by our engineers in collaboration with the engineers of the Electric Bond and Share Company and as a result of this study plans were prepared and construction started for a second 60 kv line to run directly from Neosho to Mulberry using H-frame construction and 4/0 copper conductors. This line was designed for ultimate operation at 132 kv. Additions and changes to the switching stations at Neosho, Pittsburg and Mulberry were included in these plans. A 3,000 kva condenser, auxiliary apparatus and circuit breakers were purchased by Electric Bond and Share Company and installed temporarily in the old Pittsburg Substation, pending the construction of this substation on a new site. 5414 5415

Owing to the rapid growth of the system load through 1929 indications were that it would be necessary to provide additional capacity for service in 1931. A study and investigation was therefore made by Bond and Share engineers to determine how, when and where additional generator capacity should be added to the best advantage and at a minimum cost. This study included comparison of costs and weighing advantages of a new

plant in the vicinity of Wichita against additions
5416 to Neosho for the proposed steam electric station, also the most economical sized unit to install and investigations of sources and cost of fuel, condensing water and condensing water works. There was also prepared a preliminary report as to the possibility of economically joining with utilities in the Mississippi Valley for the joint development of water power on the White River. On account of the drop in load the latter part of 1930, caused by business depression, proposed developments were not carried out but report was made and is on record for future reference.

6417 A field and office study was made by the Bond and Share engineers in the Fall of 1930 of the Neosho-Midian 132 kv line for the purpose of determining what measures, if any, might be advisable in order to help the performance of this line, particularly as to interruptions due to lightning. A report and recommendations were made for the installation of a ground wire on this line but the work itself has been deferred.

Lightning research work, similar to that in recent years, but modified to conform with progress
5418 made, was again undertaken in 1930. At the close of the year a general conference including representatives from the various Operating Companies and Manufacturing Companies was again held for the interchange of information and data. It is expected that this work will be continued finally resulting in sufficient knowledge concerning lightning to permit of designing transmission systems whch will render marked service improvements. By pooling information and attacking the problem in a coordinated fashion, much greater progress has been made through individual effort.

Exhibit 92

System Operation

5419

The foregoing has been a rather general outline of the growth of the generating and transmission facilities of this Company. With the growth of these stations and lines the operating organization and methods have grown from a very small beginning at the time of the organization of the Company, to their present state of efficiency. On placing the original Wichita Station in service in 1910, the operating force received a part of their first training from an engineer assigned by the Bond and Share Company for this purpose and to supervise the carrying out of acceptance tests for the various pieces of equipment and for the station. From that time on the Plant Betterment Department of the Bond and Share Company has rendered invaluable service to use in matters pertaining to operation.

5420

They have carried out for us when requested by us, negotiations with manufacturers concerning equipment performance and the expediting of repairs and repair parts of equipment and have repeatedly been helpful to us in connection with problems dealing with feed water treatment, elimination of corrosion in boilers and piping, caustic imbrittlement prevention, etc. They have also been of great assistance in advising with us relative to the economics of the burning of the various types of fuel available and in the selection of the proper types of equipment for burning the various fuels.

5421

We have been provided through this plant betterment service, tabulations of operating data, load figures, production costs and efficiency results of all of the main stations with which the Electric Bond and Share Company is associated. These figures have been of particular value to both our executives and operators as a check against the operation of our plants, and through friendly

rivalry these summaries of operating results have
5422 undoubtedly been productive of better plant economy. They have furnished us, too, from time to time suggestions for betterment of economy, maintenance of equipment etc. which have been the result of their contact with a large number of organizations having generating stations of the same general type as ours, doing this both in their capacity as a clearing house for such information and as the result of their own research and study.

They have also been able to help us in the organization selection and training of personnel and in the development of maintenance schedules for our
5423 equipment. An example of the assistance that they have given us in the matter of personnel is the fact that they recommended to us for employment the man who through his energy and ability became superintendent of power in charge of the operation of all of the Company's power plants and transmission lines.

The following lists some of the specific cases in which the plant betterment and service engineers of the Electric Bond and Share Company have assisted our operating forces in obtaining better and
5424 more reliable operation, in improving efficiency and in reducing energy production costs. Much of the consultation work was handled from New York, but in many instances visits were made to Kansas by service engineers, to study operating problems intimately on the ground.

Study of the operation of reducing valve connecting the two pressure sections of the Wichita station, was made in 1919 and negotiations carried out with the valve manufacturers to give reliable operation and proper pressure conditions.

Study of operation of water softener which had not performed according to expectations was made

in 1920, and suggestions for proper operation made, leading to improvement in character of water and in boiler operation; further consultation extended up to 1927, on chemical and other treatment of boiler feed water—Wichita water being very hard and difficult to condition for boiler use. 5425

Recommendations were made after a study, in 1922, for the installation of a type of combination gas and oil burner, which saved roughly $20,000 to our company, as compared with the use of other and older types of standard gas burning equipment, replacing the older relatively inefficient type of gas burners then in use.

Special assistance was rendered in 1924 in the laying out of plant maintenance schedules, providing for a regular and properly coordinated maintenance of all equipment, to the end of insuring reliability of operation and lower cost of maintenance. 5426

Work in the field and consultation in New York was carried out from time to time from 1924 to 1928 in connection with obtaining proper operation from the underfeed stokers at Neosho, burning the relatively low grade and difficult Kansas coal,—the Neosho plant being the pioneer in burning that grade of coal on underfeed stokers. 5427

Study was made and suggestions offered in 1925, for improving the operation of the evaporators installed with the last 10,000 kw machine at Wichita which led to the providing of soft feedwater for the boilers.

Studies of the cost of generating steam with coal, oil and gas were made during 1926-7 and 8 which serve as a guide in fuel purchases and in connection with furnace alterations which were necessary to allow changing from one fuel to another.

Exhibit 93

5428 **INCOME AND EXPENSES OF BOND AND SHARE**

1926—1935

SCHEDULES:

A. SUMMARY. INCOME AND EXPENSES.

B. BOND AND SHARE: INCOME FROM HOLDING COMPANIES AND THEIR SUBSIDIARIES IN THE UNITED STATES.

5429 TABLE 1. DETAIL OF INCOME FROM PART II OF SERVICE CONTRACTS (SPECIAL SERVICE)

C. PHOENIX ENGINEERING CORPORATION: INCOME AND EXPENSES—MARCH 1, 1933 to DECEMBER 31, 1935.

TABLE 1. DETAIL OF INCOME.

D. BOND AND SHARE: EXPENSES.

TABLE 1. DETAIL OF EXPENSES BY DIVISIONS—MARCH 1, 1933 to DECEMBER 31, 1935.

5430 E. PHOENIX UTILITY COMPANY: INCOME AND EXPENSES—1926 to FEBRUARY 28, 1933.

Exhibit 93

SCHEDULE A

SUMMARY OF INCOME AND EXPENSES OF BOND AND SHARE

INCOME	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
From Holding Companies, and Their Subsidiaries, in the United States (Schedule B)	$11,465,747.60	$9,761,565.58	$10,131,888.39	$11,975,672.18	$23,672,939.82	$15,672,520.06	$10,962,741.56	$8,270,955.98	$7,747,418.54	$7,959,345.86
From American & Foreign Power Company Inc., and Subsidiaries	3,079,496.84	6,947,874.32	4,150,735.55	18,377,736.44	23,982,859.95	11,064,418.99	5,715,222.53	5,679,106.34	5,653,844.31	5,199,233.20
From Wholly Owned Subsidiaries										
Phoenix Engineering Corporation (See Schedule C, Dividends paid)	—	—	—	—	—	—	—	12,518.33	55,500.00	68,450.00
All Others	11,163.58	46,298.09	2,861.56	43,150.71	205,969.61	1,822,293.12	239,185.18	154,637.74	176,966.00	171,761.52
From Other Sources [1]	5,500,286.92	1,757,561.86	3,844,963.34	7,574,884.67	6,526,192.32	4,001,250.91	1,979,734.25	603,453.41	318,973.18	237,833.51
TOTAL INCOME	20,056,694.94	18,513,299.85	18,130,448.84	37,971,444.00	54,387,961.70	32,560,483.08	18,896,883.52	14,720,671.80	13,952,702.03	13,636,624.09
EXPENSES INCLUDING TAXES (Schedule D)	5,987,460.84	6,613,973.47	6,032,288.18	9,447,034.05	12,032,798.99	7,510,398.86	5,330,217.61	3,985,403.60	4,418,329.53	4,336,728.66
NET INCOME	14,069,234.10	11,899,326.38	12,098,160.66	28,524,409.95	42,355,162.71	25,050,084.22	13,566,665.91	10,735,268.20	9,534,372.50	9,299,895.43
DIVIDENDS										
Preferred Stocks	1,500,000.00	2,376,933.34	3,000,000.00	4,602,836.66	7,359,149.06	8,120,254.77	8,433,930.00	8,433,930.00	8,433,930.00	8,433,930.00
Common Stock	2,000,000.00	3,387,500.00	4,533,333.33	6,964,331.60	8,426,043.90	8,714,486.70	1,508,286.03	—	—	—
TOTAL DIVIDENDS	3,500,000.00	5,764,433.34	7,533,333.33	11,567,168.26	15,785,192.96	16,834,741.47	9,942,216.03	8,433,930.00	8,433,930.00	8,433,930.00
SURPLUS INCOME	$10,569,234.10	$6,134,893.04	$ 4,564,827.33	$16,957,241.69	$26,569,969.75	$ 8,215,342.75	$ 3,624,449.88	$2,301,338.20	$1,100,442.50	$ 865,965.43

[1] The principal sources of Income shown as "From Other Sources" consist of Interest and Dividends from Investment Securities and Call Loans, etc., also profits from sales of Investment Securities from 1926 to 1930.

Exhibit 93 (Continued)

5434

5435

SCHEDULE B

BOND AND SHARE INCOME FROM HOLDING COMPANIES AND THEIR SUBSIDIARIES IN THE UNITED STATES

(opposite page)

5436

Exhibit 93 (Continued)

SCHEDULE B

BOND AND SHARE INCOME FROM HOLDING COMPANIES AND THEIR SUBSIDIARIES IN THE UNITED STATES

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
DIVIDENDS										
American Gas										
Common Stock—Cash	$ 113,905.00	$ 155,159.75	$ 179,151.00	$ 263,402.50	$ 534,051.50	$ 707,479.00	$ 767,216.00	$ 798,211.25	$ 830,459.25	$1,270,477.50
Common Stock—Stock	45,040.60	526,237.60	70,950.80	1,037,327.80	203,713.40	1,475,859.00	303,848.00	316,123.20	328,894.80	—
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company										
Preferred Stock	—	—	—	149,040.00	174,960.00	200,880.00	246,290.00	81,000.00	64,800.00	64,800.00
Common Stock—Cash	427,310.25	445,067.25	463,047.25	565,811.50	778,097.00	902,796.00	468,604.50	—	—	—
Common Stock—Stock	171,114.20	178,026.80	790,301.14	1,148,559.24	1,376,497.23	450,414.93	—	—	—	—
Subsidiaries—Preferred Stocks	14.00	—	—	1,575.00	—	—	—	—	—	—
Electric Company										
Preferred Stock	304,186.55	285,336.33	5,993.75	3,395.00	3,395.00	3,395.00	3,395.00	282.92	—	—
Second Preferred Stock	51,730.66	66,342.00	66,360.00	73,578.75	95,235.00	95,760.00	48,667.50	—	—	—
Common Stock	—	—	226,384.88	328,972.25	568,581.12	610,342.00	988,319.00	—	—	—
Subsidiaries—Preferred Stock	20,243.14	8,486.49	90.38	—	52,799.83	109,970.00	106,023.75	4,327.50	—	—
National Company										
Preferred Stock	1.75	—	52,248.43	—	—	—	—	—	—	—
Common Stock	316,907.90	423,020.20	1,282,995.25	1,825,508.00	2,260,058.00	2,503,158.00	2,540,433.00	2,540,433.50	2,032,349.60	1,905,327.90
Subsidiaries—Preferred Stock	1,750.00	*437.50*[1]	—	—	—	4,791.67	—	—	—	—
TOTAL DIVIDENDS	$ 1,452,204.05	$2,087,238.92	$ 3,137,522.88	$ 5,397,170.04	$ 6,047,388.08	$ 7,064,845.60	$ 5,472,796.75	$3,740,378.37	$3,256,503.65	$3,240,605.40
INTEREST										
American Gas	$ —	$ —	$ 48,222.22	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	63,016.41	5,798.61	—	1,101.67	10,225.01	—	—	—	—	—
Subsidiaries	5.56	—	—	—	—	—	—	—	20,504.07	113,952.98
Electric Company	5,391.10	20,452.10	—	131,328.36	591,220.86	—	—	—	—	—
Subsidiaries	125,027.34	1,666.67	—	5,256.00	1,752,878.87	1,289,069.58	1,581,425.00	1,577,104.17	1,695,870.59	1,856,756.94
National Company	72.67	304.50	—	5,708.33	—	—	—	—	—	—
Subsidiaries	—	—	—	84,672.93	2,949.68	—	—	—	11,205.43	37,753.61
TOTAL INTEREST	$ 193,513.08	$ 28,221.88	$ 48,222.22	$ 228,067.29	$ 2,357,274.42	$ 1,289,069.58	$ 1,581,425.00	$1,577,104.17	$1,727,580.09	$2,008,463.53

[1] Deficit figure.

Exhibit 93 (Continued)

5440

5441

SCHEDULE B

BOND AND SHARE INCOME FROM HOLDING COMPANIES AND THEIR SUBSIDIARIES IN THE UNITED STATES

(opposite page)

5442

Exhibit 93 (Continued)

SCHEDULE B (*Continued*)

SERVICE CONTRACTS	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
PART I—Supervision and General Services										
American Gas	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	5,500.00	5,500.00	5,500,00	84,916.49	92,006.62	84,070.39	77,761.93	76,643.61	78,289.79	81,256.36
Subsidiaries	1,050,660.79	1,056,588.02	1,053,530.19	1,501,103.11	1,315,722.27	1,266,651,43	1,139,852.73	978,863.86	908,718.06	896,881.55
Electric Company	12,000.00	12,000.00	12,000.00	69,033.99	84,458.83	93,105.83	88,364.64	84,697.88	88,133.22	89,172.31
Subsidiaries	869,101.66	963,148.85	999,753.75	893,865.51	1,041,251.00	1,129,513.88	1,039,825.97	868,393.41	834,317.83	804,096.19
National Company	—	—	—	86,370.80	93,967.04	86,216.83	81,814.50	79,670.68	81,807.24	80,543.08
Subsidiaries	1,324,694.06	1,535,822.17	1,482,620.65	1,164,946.12	1,113,745.85	1,024,492.60	933,184.29	804,646.67	771,975.91	758,327.44
TOTAL PART I	$ 3,261,956.51	$3,573,059.04	$ 3,553,404.59	$ 3,800,236.02	$ 3,741,151.61	$ 3,684,050.96	$ 3,360,804.06	$2,892,916.11	$2,763,242.05	$2,710,276.93
PART II—Special Services (Schedule B1)										
American Gas	$ 153,556.00	$ 228,480.00	$ 275,668.00	$ 27,421.50	$ 53,165.00	$ 985.50	$ 3,875.25	$ 599.75	$ —	$ —
Subsidiaries	598,320.00	62,320.00	50,090.00	—	—	—	—	—	—	—
American Company	145,461.43	14,415.56	105,792.82	26,324.82	72,444.88	62,054.54	26,319.00	1,773.28	—	—
Subsidiaries	2,602,396.74	1,044,840.49	417,705.88	815,146.13	2,017,729.05	1,222,216.58	194,777.01	26,801.59	71.50	—
Electric Company	64,242.23	112,320.37	687,759.70	30,945.53	308,324.47	447,574.34	55.25	—	—	—
Subsidiaries	998,363.26	984,614.58	520,412.04	773,573.67	961,434.90	834,292.24	157,452.35	10,406.74	21.25	—
National Company	343,215.32	13,416.61	22,396.56	14,460.97	145,575.84	6,948.09	1,267.40	—	—	—
Subsidiaries	1,652,518.98	1,612,638.13	1,312,913.70	862,326.21	932,787.37	1,060,482.63	163,969.49	20,975.97	—	—
TOTAL PART II [1]	$ 6,558,073.96	$4,073,045.74	$ 3,392,738.70	$ 2,550,198.83	$ 4,491,461.51	$ 3,634,553.92	$ 547,715.75	$ 60,557.33	$ 92.75	$ —
TOTAL SERVICE CONTRACTS	$ 9,820,030.47	$7,646,104.78	$ 6,946,143.29	$ 6,350,434.85	$ 8,232,613.12	$ 7,318,604.88	$ 3,908,519.81	$2,953,473.44	$2,763,334.80	$2,710,276.93
Book Profit in Connection with Reorganization of United Gas Corporation	—	—	—	—	7,035,664.20	—	—	—	—	—
TOTAL	$11,465,747.60	$9,761,565.58	$10,131,888.39	$11,975,672.18	$23,672,939.82	$15,672,520.06	$10,962,741.56	$8,270,955.98	$7,747,418.54	$7,959,345.86

[1] The Income from Part II of Service Contracts, received during 1933 and 1934 was from Services rendered prior to March 1, 1933.

Exhibit 93 (Continued)

5446

5447

SCHEDULE B, TABLE 1

BOND AND SHARE
INCOME FROM PART II OF SERVICE CONTRACTS
SPECIAL SERVICES

(opposite page)

5448

Exhibit 93 (Continued)

SCHEDULE B, TABLE 1

BOND AND SHARE
INCOME FROM PART II OF SERVICE CONTRACTS
SPECIAL SERVICES

	1926	1927	1928	1929	1930	1931	1932	1933[1]	1934	1935
ENGINEERING [1]										
American Gas	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	69,556.35	9,419.56	12,730.66	7,339.82	11,328.13	20,853.21	23,402.87	1,773.28	—	—
Subsidiaries	670,702.90	308,229.09	194,601.63	436,603.32	748,672.95	355,851.07	88,432.63	16,505.87	—	—
Electric Company	18,756.37	15,802.08	6,619.62	7,460.28	8.32	—	—	—	—	—
Subsidiaries	437,642.17	288,056.76	141,891.64	364,994.87	281,785.56	208,631.85	72,502.66	3,859.67	—	—
National Company	11,622.51	3,335.83	21,817.10	5,889.69	619.48	3,663.48	—	—	—	—
Subsidiaries	648,256.79	894,196.08	711,143.08	308,357.89	401,600.58	290,626.23	83,952.68	11,572.29	—	—
TOTAL ENGINEERING	$1,856,537.09	$1,519,039.40	$1,088,803.73	$1,130,645.87	$1,444,015.02	$ 879,625.84	$268,290.84	$33,711.11	$ —	$ —
CONSTRUCTION [1]										
American Gas	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	—	—	—	—	—	—	—	—	—	—
Subsidiaries	1,098,514.07	410,902.99	126,700.74	216,488.41	546,107.76	562,766.48	55,789.54	4,620.72	—	—
Electric Company	—	—	—	—	—	—	—	—	—	—
Subsidiaries	174,214.79	330,518.21	227,095.04	367,318.53	447,825.34	442,494.94	30,764.04	1,133.34	—	—
National Company	—	—	—	—	—	—	—	—	—	—
Subsidiaries	224,339.81	465,121.32	398,210.67	398,887.80	396,487.00	263,938.21	50,671.42	3,749.36	—	—
TOTAL CONSTRUCTION	$1,497,068.67	$1,206,542.52	$ 752,006.45	$ 982,694.74	$1,390,420.10	$1,269,199.63	$137,225.00	$ 9,503.42	$ —	$ —
AUDITING										
American Gas	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	9,089.08	—	272.16	—	—	1,124.22	—	—	—	—
Subsidiaries	37,923.77	38,622.41	9,231.51	36,147.90	45,328.66	25,763.31	24,401.11	4,957.68	—	—
Electric Company	5,215.86	1,660.29	8,928.08	5,395.75	8,396.50	4,916.00	—	—	—	—
Subsidiaries	22,320.30	22,015.61	31,319.36	19,805.52	41,400.18	66,312.52	35,461.33	2,690.22	—	—
National Company	2,458.81	3,662.78	393.46	652.28	73.36	570.36	—	—	—	—
Subsidiaries	35,646.38	36,398.73	45,321.20	46,147.77	29,504.09	31,127.36	22,482.28	5,388.94	—	—
TOTAL AUDITING	$ 112,654.20	$ 102,359.82	$ 95,465.77	$ 108,149.22	$ 124,702.79	$ 129,813.77	$ 82,344.72	$13,036.84	$ —	$ —

[1] Engineering and Constructions Services, subsequent to March 1, 1933, were rendered by Phoenix Engineering Corporation.

Exhibit 93 (Continued)

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SCHEDULE B, TABLE 1

5453

BOND AND SHARE
INCOME FROM PART II OF SERVICE CONTRACTS
SPECIAL SERVICES

(opposite page)

5454

SCHEDULE B, TABLE 1 (*Continued*)

COMMISSIONS—SALE OF SECURITIES	1930	1926	1927	1928	1929	1931	1932	1933[1]	1934[1]	1935
BLOCKS TO DEALERS										
American Gas	$ 37,500.00	$ —	$ 250,000.00	$ —	$ —	$ —	$ —	$ —	$ —	$ —
Subsidiaries	598,320.00	62,320.00	50,090.00	—	—	—	—	—	—	—
American Company	50,000.00	—	—	—	—	—	—	—	—	—
Subsidiaries	768,500.00	239,000.00	85,000.00	—	654,325.00	170,375.00	—	—	—	—
Electric Company	—	—	—	—	281,250.00	436,178.50	—	—	—	—
Subsidiaries	355,000.00	329,000.00	101,250.00	—	130,000.00	51,227.75	—	1,875.00	—	—
National Company	328,466.00	—	—	—	133,750.00	—	—	—	—	—
Subsidiaries	647,500.00	60,000.00	109,875.00	33,750.00	81,875.00	408,125.00	—	—	—	—
TOTAL BLOCKS TO DEALERS	$2,785,286.00	$ 690,320.00	$ 596,215.00	$ 33,750.00	$1,281,200.00	$1,065,906.25	$ —	$ 1,875.00	$ —	$ —
CUSTOMER—OWNERSHIP CAMPAIGNS										
American Gas	$ 116,056.00	$ 228,480.00	$ 25,668.00	$ 27,421.50	$ 53,165.00	$ 985.50	$ 3,838.25	$ 599.75	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	16,816.00	4,996.00	92,790.00	18,985.00	61,116.75	39,318.75	2,889.75	—	—	—
Subsidiaries	26,756.00	48,086.00	2,172.00	125,906.50	16,034.25	104,698.75	20,281.50	359.00	71.50	—
Electric Company	40,270.00	94,858.00	122,212.00	18,089.50	8,396.50	4,916.00	21.00	—	—	—
Subsidiaries	9,186.00	15,024.00	18,856.00	21,454.75	20,398.00	46,943.25	12,803.75	236.00	21.25	—
National Company	668.00	6,418.00	186.00	7,919.00	11,133.00	2,714.25	1,250.25	—	—	—
Subsidiaries	96,776.00	156,922.00	48,363.75	75,182.75	17,395.50	63,216.00	5,254.25	103.25	—	—
TOTAL CUSTOMER—OWNERSHIP CAMPAIGNS	$ 306,528.00	$ 554,784.00	$ 310,247.75	$ 294,959.00	$ 187,639.00	$ 262,792.50	$ 46,338.75	$ 1,298.00	$92.75	$ —
MISCELLANEOUS SPECIAL SERVICES										
American Gas	$ —	$ —	$ —	$ —	$ —	$ —	$ 37.00	$ —	$ —	$ —
Subsidiaries	—	—	—	—	—	—	—	—	—	—
American Company	—	—	—	—	—	758.36	26.38	--	—	—
Subsidiaries	—	—	—	—	7,260.43	2,761.97	5,872.23	358.32	—	—
Electric Company	—	—	550,000.00	—	10,273.15	1,563.84	34.25	—	—	—
Subsidiaries	—	—	—	—	40,025.82	18,681.93	5,920.57	612.51	—	—
National Company	—	—	—	—	—	—	17.15	—	—	—
Subsidiaries	—	—	—	—	5,925.20	3,449.83	1,608.86	162.13	—	—
TOTAL MISCELLANEOUS SPECIAL SERVICES	$ —	$ —	$ 550,000.00	$ —	$ 63,484.60	$ 27,215.93	$ 13,516.44	$ 1,132.96	$ —	$ —
TOTAL PART II OF SERVICE CONTRACTS	$6,558,073.96	$4,073,045.74	$3,392,738.70	$2,550,198.83	$4,491,461.51	$3,634,553.92	$547,715.75	$60,557.33[1]	$92.75[1]	$ —

[1] The Income from Part II of Service Contracts received during 1933 and 1934 was from Services rendered prior to March 1, 1933.

Exhibit 93 (Continued)

SCHEDULE C

5458

PHOENIX ENGINEERING CORPORATION

INCOME AND EXPENSES

	March 1, to December 31 1933	Year 1934	Year 1935
Income			
From Bond and Share (schedule C 1)	$ 80,653.52	$113,304.96	$117,356.52
From Bond and Share Wholly Owned Subsidiaries (schedule C 1)	30,364.16	29,679.83	40,132.34
5459 From Holding Companies and their Subsidiaries in the United States (schedule C 1)	108,716.24	146,958.66	194,989.13
From American & Foreign Power Co., Inc. and its Subsidiaries	75,924.65	94,845.95	74,393.99
From Wholly Owned Subsidiaries	.....	.....	5,427.40
Foreign construction company	2,121.51	6,168.31	*7,221.46*[1]
Total Income	297,780.08	390,957.71	425,077.92
5460 Expenses paid to Bond & Share	14,937.47	9,428.62	9,327.30
Other expenses including taxes	245,271.39	306,733.87	340,495.64
Total Expenses	260,208.86	316,162.49	349,822.94
Net Income	37,571.22	74,795.22	75,254.98
Dividend Paid	12,500.00	55,500.00	68,450.00
Surplus Income	25,071.22	19,295.22	6,804.98
Surplus Balance at Beginning of Period	.....	25,071.22	44,366.44
Surplus Balance at End of Period	$ 25,071.22	$ 44,366.44	$ 51,171.42

[1] Deficit figure.

Exhibit 93 (Continued)

SCHEDULE C, TABLE 1

5461

PHOENIX ENGINEERING CORPORATION

INCOME

	March 1, to December 31 1933	Year 1934	Year 1935
From Bond and Share			
Engineering	$50,729.27	$ 79,833.76	$ 85,359.74
Construction	.....	.....	.....
Other Income, Printing, Duplicating, etc.	29,924.25	33,471.20	31,996.78
Total Electric Bond and Share Company	$80,653.52	$113,304.96	$117,356.52
From wholly owned subsidiaries			
Engineering (Phoenix Utility Company; Ebasco Services Inc.)	$13,437.34	$ 14,286.50	$ 26,291.88
Foreign service company	4,867.63	158.11	.....
2 Rector Street Corporation	7,500.00	9,000.00	8,250.00
Other Income, Printing, Duplicating, etc.	4,559.19	6,235.22	5,590.46
Total Wholly Owned Subsidiaries	$30,364.16	$ 29,679.83	$ 40,132.34
From Holding Companies and their Subsidiaries in the United States			
Engineering			
American Company	$	$	$ 151.26
Subsidiaries	50,326.98	34,304.17	36,032.57
Electric Company	.....	.....	102.16
Subsidiaries	26,209.88	39,464.59	84,288.07
National Company	.....	1,160.95	33.99
Subsidiaries	24,536.36	41,833.99	41,542.35
Total Engineering	101,073.22	116,763.70	162,150.40

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5463

Exhibit 93 (Continued)

	Construction			
5464	American Company	.....	.....	.....
	Subsidiaries	.....	.....	.....
	Electric Company	.....	.....	.....
	Subsidiaries	.....	23,333.56	25,121.14
	National Company	.....	.....	.....
	Subsidiaries	.....	.....	.....
	Total Construction	.....	23,333.56	25,121.14
	Other Income—Printing, Duplicating, etc.			
	American Company	1,921.13	1,479.32	1,693.13
	Subsidiaries	250.43	363.63	1,664.46
5465	Electric Company	1,731.00	1,063.76	1,085.89
	Subsidiaries	1,822.29	1,927.26	1,697.96
	National Company	1,382.29	1,217.75	1,207.66
	Subsidiaries	535.88	809.68	368.49
	Total Other Income	7,643.02	6,861.40	7,717.59
	Total	$108,716.24	$146,958.66	$194,989.13

5466

Exhibit 93 (Continued)

SCHEDULE D †

BOND AND SHARE

STATEMENT OF EXPENSES [1]

EXPENSES—EXCLUDING TAXES	1926	1927	1928	1929	1930	1931	1935	1932	1933	1934
Salaries	$3,230,201.53	$3,594,121.98	$4,106,705.08	$5,718,160.01	$ 6,305,682.69	$5,011,327.14	$3,695,338.91	$2,535,677.86	$2,277,154.98	$2,065,152.90
Expenses of Officers and Employees	26,957.60	31,350.88	26,054.62	115,222.38	127,170.14	56,979.60	42,144.59	18,563.55	14,993.85	35,845.61
Legal and Special Services	36,194.72	41,938.08	53,857.18	106,608.05	56,311.89	104,556.10	92,984.56	163,942.99	141,406.78	224,176.90
Rent	322,096.41	533,790.02	469,910.80	405,966.37	443,300.92	473,344.76	472,161.39	462,025.79	466,844.03	474,781.35
Printing, Stationery & Supplies	80,344.44	89,595.94	99,796.18	229,803.08	307,442.31	165,078.95	140,507.91	61,719.92	51,239.56	121,586.32
Telephone, Telegraph and Cable	21,782.47	27,720.77	23,144.39	38,865.75	43,035.25	33,143.15	26,773.78	24,365.43	17,801.38	22,512.07
Postage	21,264.46	19,118.72	16,786.62	41,565.33	54,342.03	48,552.66	31,912.62	12,560.35	8,264.84	10,871.80
Alterations and Maintenance	151,506.03	177,479.23	1,825.41	62,638.74	65,623.52	16,879.21	13,157.77	45,092.16	24,301.23	6,678.86
Furniture and Fixtures	.....	.....	.....	83,083.54	71,991.17	9,905.43	1,763.76	762.59	970.15	1,640.44
*Registrar & Transfer Agents Fees & Expenses	4,446.00	8,406.60	10,048.75	302,366.45	594,587.24	522,354.15	472,213.17	.....	.....	.....
Advertising	18,846.99	23,882.95	22,635.59	31,368.34	30,670.10	29,909.02	25,582.72	18,206.73	15,131.89	8,290.18
Insurance	6,135.44	15,259.97	20,995.62	16,887.32	46,779.64	14,542.73	33,282.35	27,331.11	25,786.59	22,521.92
Directors Fees	2,094.00	3,010.00	2,348.00	6,188.00	4,067.00	5,017.00	10,374.00	7,713.00	5,130.00	4,080.00
Special Studies	.....	.....	.....	155,350.07	69,266.64	24,934.73	1,890.28	.....	.....	.....
Commission to Banks for placing and handling Call Loans Receivable	10,730.52	15,733.38	9,811.27	251,752.80	167,990.54	5,195.42	.....	.....	.....	.....
Commissions paid on Sale of Preferred Stock	.....	350,000.00	.....	.....	.....	.....	.....	.....	.....	.....
Expenses—Preferred Stock (Investments) Sold	1,345.29	546.26	307.34	.....	.....	.....	.....	.....	.....	.....
**Dividend Expenses	.....	.....	.....	.....	.....	.....	.....	9,317.71	8,263.18	7,383.66
**Stockholders Reports & Meetings	.....	.....	.....	.....	.....	.....	.....	23,718.93	30,843.42	60,515.61
**Stock Transfer Expenses	.....	.....	.....	.....	.....	.....	.....	170,613.85	78,922.18	83,422.65
Miscellaneous—Including:										
***Books, Periodicals, Papers, etc.	.....	.....	.....	11,181.92	18,111.96	10,254.22	8,366.13	6,353.94	7,126.53	18,780.11
***Dues & Memberships	158,205.16	174,785.27	164,201.24	6,209.50	3,780.00	9,750.70	6,486.41	2,511.86	3,171.88	956.94
***Contributions & Donations	.....	.....	.....	24,928.57	13,445.00	20,990.00	14,013.50	9,956.24	1,000.00	300.00
General	.....	.....	.....	69,419.76	30,461.49	29,643.54	32,045.68	13,671.62	11,868.09	8,496.62
Interest	3,568.47	45,364.89	269,766.65	13,201.64	103.89	.....	.....	.....	.....	.....
TOTAL EXPENSES—EXCLUDING TAXES	$4,095,719.53	$5,152,104.94	$5,298,194.74	$7,690,767.62	$8,454,163.42	$6,592,358.51	$5,120,999.53	$3,614,105.63	$3,190,220.56	$3,177,993.94

† Notations on page 1829.

Exhibit 93 (Continued)

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SCHEDULE D (*Continued*)

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BOND AND SHARE
STATEMENT OF EXPENSES

(opposite page)

5472

Exhibit 93 (Continued)

SCHEDULE D—*Continued*

TAXES	1926	1927	1928	1929	1930	1931	1932	1932	1933	1934
Federal Income	1,806,361.83	1,097,470.55	446,718.61	1,442,668.88	3,117,493.47	653,800.00	.....	.....	933,050.00	867,000.00
Other than Federal Income	85,379.48	364,397.98	287,374.83	313,597.55	461,142.10	264,240.35	209,218.08	371,297.97	295,058.97	291,734.72
TOTAL TAXES	1,891,741.31	1,461,868.53	734,093.44	1,756,266.43	3,578,635.57	918,040.35	209,218.08	371,297.97	1,228,108.97	1,158,734.72
TOTAL EXPENSES INCLUDING TAXES	$5,987,460.84	$6,613,973.47	$6,032,288.18	$9,447,034.05	$12,032,798.99	$7,510,398.86	$5,330,217.61	$3,985,403.60	$4,418,329.53	$4,336,728.66

* Commencing with March 1, 1933, the charges for Registrar & Transfer Agents fees and expenses were divided between Stock transfer expense, Dividend Expense and Stockholders Reports and Meetings.

** New Accounts created March 1, 1933.

*** New Accounts created January 1, 1929.

1. The above expenses do not include any items of expense incurred on behalf of, and billed to, the serviced companies.

The Expenses of Bond and Share for the period from January 1, 1926, to February 28, 1933, include the expenses applicable to Services rendered to Phoenix Utility Company in connection with Engineering and Construction Work conducted by that Company. No separate account of such expenses was kept on the books of either Bond and Share or Phoenix Utility Company. Income to Bond and Share from Phoenix Utility Company in payment for these services was an amount equal to construction service fees received by Phoenix Utility Company. See Phoenix Utility Company income and expense statement, 1926—1933, Schedule E. On the Bond and Share income expense statement this same sum is included in income from American Company, Electric Company and National Company and their subsidiaries for construction services (see Schedule B, Table 1) and in income from American & Foreign Power Company Inc. (see Schedule A).

On March 1, 1933, contemporaneously with the organization of Phoenix Engineering Corporation, Bond and Share reorganized its departments and accounting procedure so that its expenses were allocated on its books to the executive and service divisions as indicated in Schedule D, Table 1. Phoenix Engineering Corporation kept its expenses on its own books and Bond and Share charged Phoenix Engineering Corporation for services rendered by it to Phoenix Engineering Corporation (see Schedule C).

Exhibit 93 (Continued)

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SCHEDULE D, TABLE 1

BOND AND SHARE
STATEMENT OF EXPENSES BY DIVISIONS
MARCH 1, 1933 TO DECEMBER 31, 1935

(opposite page)

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Exhibit 93 (Continued)

SCHEDULE D, TABLE 1

BOND AND SHARE

STATEMENT OF EXPENSES BY DIVISION

MARCH 1, 1933 to DECEMBER 31, 1935

	MARCH 1 TO DECEMBER 31, 1933				JANUARY 1 TO	
	Operating Division [2]	Foreign Division [3]	General Division [4]	Total All Divisions	Operating Division	Foreign Division
EXPENSES—EXCLUDING TAXES [1]						
Salaries	$1,067,158.29	$595,079.48	$307,010.38	$1,969,248.15	$1,247,338.67	$687,177.49
Rent	200,001.05	94,018.60	97,823.13	391,842.78	243,481.17	116,737.44
Stockholders Reports & Meetings	.....	.....	23,718.93	23,718.93	.....	.....
Stock Transfer Tax	.....	.....	102,153.90	102,153.90	.....	.....
Dividend Expense	.....	.....	9,317.71	9,317.71	.....	.....
Directors Fees	.....	.....	6,583.00	6,583.00	.....	.....
Printing, Stationery & Supplies	26,358.81	8,852.82	5,591.19	40,802.82	35,564.66	7,515.76
Legal Services & Expenses	.....	.....	58,956.10	58,956.10	150.00	.....
Special Services	44,063.72	11,784.46	31,078.44	86,926.62	71,392.73	17,030.18
Expenses—Officers & Employees	8,590.08	1,711.60	2,799.54	13,101.22	10,464.14	1,640.57
Insurance	11,651.10	6,999.59	2,713.07	21,363.76	12,497.60	7,106.50
Postage	3,104.17	2,157.47	1,512.02	6,773.66	4,278.11	2,805.91
Telephone	9,216.60	4,419.73	4,199.73	17,836.06	9,024.94	4,337.76
Telegraph & Cable	777.50	153.06	231.77	1,162.33	377.45	55.31
Advertising	.....	.....	12,685.51	12,685.51	292.49	.....
Alterations & Maintenance	30,348.50	5,058.10	6,161.12	41,567.72	6,215.19	3,645.66
Books, Periodicals, Papers, etc.	1,629.14	168.41	354.83	2,152.38	5,443.32	595.06
Dues & Memberships	1,089.00	.....	448.33	1,537.33	567.75	1.25
Contributions & Donations	247.89	133.97	9,574.38	9,956.24	.....	.....
Furniture & Fixtures	103.52	195.27	115.15	413.94	426.04	434.74
Miscellaneous	2,108.09	981.98	6,894.89	9,984.96	4,106.38	1,332.80
TOTAL EXPENSES EXCLUDING TAXES	1,406,447.46	731,714.54	689,923.12	2,828,085.12	1,651,620.64	850,416.43
TAXES						
Federal Income	97,292.40	90,728.53	*188,020.93*	.....	118,705.07	97,755.42
Other than Federal Income	103.06	16,261.27	315,289.35	331,653.68	81.59	19,104.31
TOTAL TAXES	97,395.46	106,989.80	127,268.42	331,653.68	118,786.66	116,859.73
TOTAL EXPENSES INCLUDING TAXES	$1,503,842.92	$838,704.34	$817,191.54	$3,159,738.80	$1,770,407.30	$967,276.16

1. The above expenses do not include any items of expense incurred on behalf of, and billed to, the serviced companies. For the month of September, 1935, this sum amounted to $8,351.82.

2. Expenses attributed to servicing the serviced operating companies.

3. Expenses attribut
Foreign Power C
aries.

ONS

5

TO DECEMBER 31, 1934 General Division	Total All Divisions	Operating Division	JANUARY 1 TO DECEMBER 31, 1935 Foreign Division	General Division	Total All Divisions
49 $ 342,638.82	$2,277,154.98	$1,123,303.02	$627,229.85	$ 314,620.03	$2,065,152.90
4 106,625.42	466,844.03	235,887.72	107,230.57	131,663.06	474,781.35
. 30,843.42	30,843.42	.....	.....	60,515.61	60,515.61
. 78,922.18	78,922.18	.....	.....	83,422.65	83,422.65
. 8,263.18	8,263.18	.....	.....	7,383.66	7,383.66
. 5,130.00	5,130.00	.....	.....	4,080.00	4,080.00
76 8,159.14	51,239.56	46,487.53	6,170.84	68,927.95	121,586.32
. 6,574.56	6,724.56	250.00	.....	87,485.56	87,735.56
18 46,259.31	134,682.22	60,079.63	23,635.16	52,726.55	136,441.34
57 2,889.14	14,993.85	21,368.18	2,948.00	11,529.43	35,845.61
50 6,182.49	25,786.59	10,872.91	5,885.78	5,763.23	22,521.92
91 1,180.82	8,264.84	5,565.86	3,180.70	2,125.24	10,871.80
76 3,865.72	17,228.42	10,315.14	4,248.78	7,360.89	21,924.81
31 140.20	572.96	352.55	105.86	128.85	587.26
. 14,839.40	15,131.89	339.78	.....	7,950.40	8,290.18
66 14,440.38	24,301.23	4,655.12	657.22	1,366.52	6,678.86
06 1,088.15	7,126.53	7,055.62	370.05	11,354.44	18,780.11
25 2,602.88	3,171.88	851.18	2.25	103.51	956.94
. 1,000.00	1,000.00	.....	.....	300.00	300.00
74 109.37	970.15	1,157.22	40.28	442.94	1,640.44
80 6,428.91	11,868.09	3,685.43	1,268.24	3,542.95	8,496.62
13 688,183.49	3,190,220.56	1,532,226.89	782,973.58	862,793.47	3,177,993.94
42 716,589.51	933,050.00	128,450.30	87,661.06	650,888.64	867,000.00
31 275,873.07	295,058.97	205.74	23,933.53	267,595.45	291,734.72
73 992,462.58	1,228,108.97	128,656.04	111,594.59	918,484.09	1,158,734.72
16 $1,680,646.07	$4,418,329.53	$1,660,882.93	$894,568.17	$1,781,277.56	$4,336,728.66

ributed to servicing American & r Company, Inc., and its subsidi-

4. Expenses attributed to servicing the domestic holding companies and to Bond and Share's own corporate expenses.

5. Italics indicate offset to taxes accrued.

Exhibit 93 (Continued)

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5483

SCHEDULE E

PHOENIX UTILITY COMPANY

INCOME AND EXPENSES

(opposite page)

5484

Exhibit 93 (Continued)

SCHEDULE E

PHOENIX UTILITY COMPANY

INCOME AND EXPENSES

	1926	1927	1928	1929	1930	1931	1932	January 1 to February 28 1933
Income								
Services rendered—U. S. Operations	$1,326,814.06	$1,064,111.10	$625,202.31	$875,228.96	$1,036,809.28	$811,831.58	$127,155.63	$9,522.26
Services rendered—Foreign Operations	158,386.18	157,912.75	142,294.92	100,195.00	101,157.07	31,776.97	12.54	—
Total Services Rendered	$1,485,200.24	$1,222,023.85	$767,497.23	$975,423.96	$1,137,966.35	$843,608.55	$127,168.17	$9,522.26
Interest on Bank Deposits	462.67	774.06	1,061.45	1,503.10	1,094.74	533.79	184.62	13.46
Interest on Loans Receivable	1,703.33	1,703.33	1,708.02	—	—	—	—	—
Miscellaneous Income	—	2,600.51	188.04	415.34	.15	1.34	—	—
TOTAL INCOME	$1,487,366.24	$1,227,101.75	$770,454.74	$977,342.40	$1,139,061.24	$844,143.68	$127,352.79	$9,535.72
Expenses								
Paid to Bond and Share for Services	$1,485,200.24	$1,222,023.85	$767,497.23	$975,423.96	$1,137,966.35	$843,608.55	$120,484.12	$9,503.42
*Miscellaneous Expenses	1,731.94	3,364.74	2,934.88	1,234.82	1,431.63	804.00	7,624.74	655.57
TOTAL EXPENSES	$1,486,932.18	$1,225,388.59	$770,432.11	$976,658.78	$1,139,397.98	$844,412.55	$128,108.86	$10,158.99
Balance	$ 434.06	$ 1,713.16	$ 22.63	$ 683.62	$ *336.74*	$ *268.87*	$ *756.07*	$ *623.27*
*Miscellaneous Expenses								
Directors' Fees	$ 640.00	$ 440.00	$ 560.00	$ 840.00	$ 640.00	$ 360.00	$ 400.00	$ —
Taxes	5.00	—	—	5.00	15.00	89.00	6,784.17	21.12
Interest on Loans Payable	608.33	608.33	610.02	149.99	—	—	—	—
Miscellaneous	478.61	2,316.41	1,764.86	239.83	776.63	355.00	440.57	634.45
	$ 1,731.94	$ 3,364.74	$ 2,934.88	$ 1,234.82	$ 1,431.63	$ 804.00	$ 7,624.74	$ 655.57

Italics indicate deficit figures.

5488

Exhibit 94

INTERCOMPANY LOANS—BOND AND SHARE, AMERICAN COMPANY, ELECTRIC COMPANY, NATIONAL COMPANY AND MAJOR SUBSIDIARY COMPANIES.

5489

Dec. 31, 1925—Dec. 31, 1935

BOND AND SHARE

AMERICAN COMPANY

(opposite page)

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Exhibit 94

BOND AND SHARE

Dec. 31, 1925—Dec. 31, 1935

Bond and Share loaned to	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
American Gas	3½%	$16,000,000	$16,000,000	$16,000,000	None
American Company	6 & 5%	43,290,000	43,290,000	6,545,000	None
Electric Company	6 &5%	98,155,000	98,155,000	34,940,000	None
Lehigh Company	6 & 5%	8,544,000	8,544,000	4,619,000	None
National Company	6%	2,090,000	2,090,000	980,000	None
New Orleans Public Service Inc.	5%	3,000,000	3,000,000	3,000,000	None
United Company	6%	85,780,500	56,855,500	45,880,500	$28,925,000

All loans made by Bond and Share, excepting those to United Company, were paid in full prior to January 1, 1931.

AMERICAN COMPANY

American Company borrowed from (1)					
Bond and Share	6 & 5%	$43,290,000	$43,290,000	$ 6,545,000	None
National Company	5%	16,519,000	16,519,000	4,969,000	None
Power Company	6 &5%	700,000	700,000	400,000	None

Exhibit 94

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AMERICAN COMPANY

(continued)

(opposite page)

5496

Exhibit 94

AMERICAN COMPANY
(Continued)

December 31, 1925 to December 31, 1935

American Company borrowed from(1)	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Central Arizona Light & Power Co.	6 & 5%	1,101,000	1,101,000	440,000	None
Florida Power & Light Co.	6 & 5%	15,930,000	15,930,000	3,200,000	None
Kansas Gas & Electric Co.	6%	14,357,000	14,357,000	2,375,000	None
Minnesota Power & Light Co.	6 & 5%	17,154,500	17,154,500	2,775,000	None
Nebraska Power Co.	6 & 5%	8,089,000	8,089,000	1,240,000	None
Portland Gas & Coke Co.	6%	1,040,000	1,040,000	640,000	None
Superior Water, Light & Power Co.	5%	40,000	40,000	40,000	None
Texas Electric Service Company	6%	3,600,000	3,600,000	3,600,000	None
Texas Power & Light Co.	6 & 5%	8,589,500	8,589,500	1,350,000	None
The Washington Water Power Co.	6%	2,138,909	2,138,909	1,490,000	None

(1) All loans to American Company from its subsidiaries were paid in full prior to January 1, 1931, and no such loans have been made since that date.

No loans payable and receivable between the same companies were outstanding at the same time.

Exhibit 94

5500

5501

AMERICAN COMPANY

(continued)

(opposite page)

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Exhibit 94

American Company loaned to (1)	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Electric Company	5%	$ 3,570,000	$ 3,570,000	$ 1,570,000	None
Central Arizona Light & Power Co.	7 & 6%	6,098,500	6,478,500 (a)	3,883,000	None
Florida Power & Light Co.	7 & 6%	67,574,416	65,225,342	20,570,000	$3,124,000
Kansas Gas & Electric Co.	6 & 5%	9,559,800	9,559,800	3,366,000	None
Minnesota Power & Light Co.	6%	14,186,000	14,186,000	12,575,000	None
Montana Power Gas Company	6%	6,346,000	346,000	6,250,000	$6,000,000
Nebraska Power Co.	6 & 5%	9,444,270	9,444,270	3,760,570	None
New Mexico Electric Service Co.	6%	624,100	114,100	600,000	$ 510,000
Northern Power Co.	7 & 5%	110,000	78,000	774,000	774,000
Northwestern Electric Co.	6 & 5%	12,066,770	9,291,161	3,662,340	2,819,609
Pacific Power & Light Co.	6 & 5%	31,725,054	28,537,220	10,313,500	3,194,500
Portland Gas & Coke Co.	6 & 5%	18,004,339	18,803,339 (b)	4,295,890	None

(1) All loans to American Company, from its subsidiaries were paid in full prior to January 1, 1931; and no such loans have been made since.

(a) Of the repayments, $380,000 applied to the balance at beginning of period.

(b) Of the repayments, $799,000 applied to the balance at beginning of period.

Exhibit 94

5506

AMERICAN COMPANY

5507

(continued)

ELECTRIC COMPANY

(opposite page)

5508

Exhibit 94

American Company loaned to	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Superior Water, Light & Power Co.	6 & 5%	3,546,857	1,995,857	1,572,000	$1,551,000
Texas Electric Service Company	6%	4,182,700	4,182,700	1,321,700	None
Texas Power & Light Co.	6%	14,527,100	14,527,100	2,455,500	None
Texas Public Utilities Corporation	6%	5,741,032	4,799,228	3,199,921	$ 941,803
The Montana Power Co.	6%	24,411,925	22,959,500	5,830,000	1,452,425
The Washington Water Power Co.	6%	4,086,984	4,086,984	1,563,000	None
Electric Company borrowed from (1)			ELECTRIC COMPANY		
Bond and Share	6 & 5%	$98,155,000	$98,155,000	$34,940,000	None
American Company	5%	3,570,000	3,570,000	1,570,000	None
National Company	5%	26,690,000	26,690,000	7,305,000	None

Exhibit 94

5512

5513

ELECTRIC COMPANY

(continued)

(opposite page)

5514

Exhibit 94

ELECTRIC COMPANY
(continued)

Dec. 31, 1925—Dec. 31, 1935

Electric Company borrowed from (1)	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Lehigh Company	5%	1,000,000	1,000,000	1,000,000	None
Arkansas Power & Light Co.	6 & 5%	3,050,000	3,050,000	900,00	None
Dallas Power & Light Co.	6 & 5%	11,266,000	11,266,000	2,150,000	None
Idaho Power Company	6%	376,000	401,000 (a)	316,000	None
Mississippi Power & Light Co.	6 & 5%	730,000	730,000	700,000	None
New Orleans Public Service Inc.	5%	2,750,000	2,750,000	2,750,000	None
Power Securities Corp.	6 & 5%	14,228,000	14,398,000 (b)	1,848,000	None
Utah Power & Light Co.	6 & 5%	10,205,000	11,840,000 (c)	1,955,000	None

(1) All loans loans to Electric Company from its subsidiaries were paid in full prior to January 1, 1931; and no such loans have been made since that date. No loans payable and receivable between the same companies were outstanding at the same time.

(a) Of the repayments, $25,000. applied to the balance at beginning of period.

(b) Of the repayment $170,000. applied to the balance at beginning of period.

(c) Of the repayments $1,635,000. applied to the balance at beginning of period.

Exhibit 94

5518

5519

ELECTRIC COMPANY

(continued)

NATIONAL COMPANY

(opposite page)

5520

Exhibit 94

ELECTRIC COMPANY
(continued)

Dec. 31, 1925—Dec. 31, 1935

Electric Company loaned to	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Arkansas Power & Light Co.	6%	$19,084,500	$19,084,500	$6,001,000	None
Dallas Power & Light Co.	6%	2,688,500	2,872,500(d)	903,000	None
Louisiana Power & Light Co.	6%	10,868,090	10,868,090	5,002,090	None
Mississippi Power & Light Co.	6%	19,139,146	18,949,146	6,980,646	$190,000
New Orleans Public Service Inc.	6½% & 5%	23,750,000	23,750,000	3,700,000	None
United Gas Corporation	7 & 6%	17.130,000	17,130,000	14,845,000	None
Utah Power & Light Co.	6 & 3%	28,052,000	27,326,000	3,480,000	$726,000
National Company borrowed from(1)			**NATIONAL COMPANY**		
Bond and Share	6%	$ 2,090,000	$ 2,090,000	$ 980,000	None
Power Company	6%	110,000	110,000	110,000	None

(d) Of the repayments $184,000 applied to the balance at beginning of period.

Exhibit 94

5524

5525

NATIONAL COMPANY

(continued)

(opposite page)

5526

Exhibit 94

NATIONAL COMPANY
(continued)

National Company borrowed from(1)	Maximum and Minimum-Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Asheville Power & Light Company	5%	45,000	350,000(a)	305,000	None
Birmingham Electric Co.	6%	2,200,000	2,200,000	1,640,000	None
Carolina Power & Light Co.	6 & 5%	42,846,000	43,236,000(b)	8,070,000	None
Houston Lighting & Power Co.	6 & 5%	4,240,000	4,240,000	1,300,000	None
Memphis Power & Light Co. Replacement Fund	6 & 5%	1,007,000	1,249,000(c)	342,000	None

(1) All loans to National Company from its subsidiaries were paid in full prior to January 1, 1932, and no such loans have been made since that date.

Notes and loans payable and receivable between the same companies were never outstanding at the same time.

(a) Of the repayments, $305,000 applied to balance at beginning of period.

(b) Of the repayments, $390,000 applied to balance at beginning of period.

(c) Of the repayments, $242,000 applied to balance at beginning of period.

Exhibit 94

5530

5531

NATIONAL COMPANY

(continued)

(opposite page)

5532

Exhibit 94

NATIONAL COMPANY
(continued)

National Company loaned to	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
American Company	5%	$16,519,000	$16,519,000	$4,969,000	None
Electric Company	5%	26,690,000	26,690,000	7,305,000	None
Lehigh Company	6 & 5%	35,190,333	35,190,333	13,350,800	None
Southwestern Power & Light Co.	5%	2,020,000	2,020,000	2,020,000	None
Birmingham Eelectric Co.	6 & 5%	25,986,917	26,256,917 (d)	10,181,000	None
Carolina Power & Light Co.	6 & 5%	8,947,157	8,947,157	5,602,157	None
Holston River Electric Co.	6%	340,227	9,200	331,027	$ 331,027
Houston Lighting & Power Co.	6%	18,670,000	19,405,000 (e)	4,370,000	None
Memphis Power & Light Co.	6 & 5%	23,827,544	23,827,544	4,298,500	None
Roanoke River Power Co.	6%	1,613,500	38,500	1,605,000	$1,575,000
Tennessee Public Service Co.	6%	3,126,769	3,126,769	2,313,000	None
West Tennessee Power & Light Co.	6%	6,502,000	3,495,000	3,023,000	$3,007,000

(d) Of the repayments, $270,000 applied to balance at beginning of period.

(e) Of the repayments, $735,000 applied to balance at beginning of period.

Exhibit 94

5536

5537 UNITED COMPANY

LEHIGH COMPANY

(opposite page)

5538

Exhibit 94

UNITED COMPANY

United Company borrowed from	Maximum and Minimum-Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Bond and Share	6%	$85,780,500	$56,855,500	$45,880,500	$28,925,000
Electric Company	7 & 6%	17,130,000	17,130,000	14,845,000	None
United Company loaned to					
United Gas Public Service Company	7 & 6%	44,961,331	37,961,331	12,814,900	7,000,000
Lehigh Company borrowed from (1)			LEHIGH COMPANY		
Bond and Share	6 & 5%	$ 8,544,000	$ 8,544,000	$ 4,619,000	None
Carolina Power & Light Company	5%	2,350,000	2,350,000	1,975,000	None

Exhibit 94

5542

5543

LEHIGH COMPANY

(continued)

(opposite page)

5544

Exhibit 94

LEHIGH COMPANY
(continued)

Lehigh Company borrowed from (1)	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
Pennsylvania Power & Light Company	6 & 5%	20,558,000	20,558,000	5,190,000	None
Lehigh Company loaned to					
Electric Company	5%	1,000,000	1,000,000	1,000,000	None
Pennsylvania Power & Light Company	6 & 5%	17,408,000	17,408,000	9,817,800	None

(1) All loans to Lehigh Company were paid in full prior to January 1, 1932, and no such loans have been made since that date.

Notes and loans payable and receivable between the same companies were never outstanding at the same time.

POWER COMPANY

Power Company borrowed from (1)					
Idaho Power Company	6 & 5%	$ 4,674,163	$ 5,116,163 (a)	$ 1,256,000	None

Exhibit 94

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5549

POWER COMPANY

(continued)

(opposite page)

5550

Exhibit 94

POWER COMPANY
(continued)

Power Company loaned to	Maximum and Minimum Interest Rates	Total Advances	Total Repayments	Maximum Loan Outstanding	Balance Dec. 31, 1935
American Company	6 & 5%	700,000	700,000	400,000	None
Electric Company	6 & 5%	14,228,000	14,398,000 (b)	1,848,000	None
National Company	6%	110,000	110,000	110,000	None
Idaho Power Company	6%	1,557,000	1,557,000	570,000	None

(1) All loans to Power Company from its Subsidiary were paid in full prior to January 1, 1931, and no such loans have been made since that date.

Notes and loans payable and receivable between the same companies, were never outstanding at the same time.

(a) Of the repayments, $442,000 applied to balance at beginning of period.

(b) Of the repayments, $170,000 applied to balance at beginning of period.

5554

Exhibit 95

5555

BOND AND SHARE

SHORT-TERM LOANS ARRANGED FOR SERVICED COMPANIES

Jan. 1, 1920—Jan. 1, 1936

(opposite page)

5556

Exhibit 95

BOND AND SHARE

SHORT-TERM LOANS ARRANGED FOR SERVICED COMPANIES

Jan. 1, 1920—Jan. 1, 1936

Name of Company Which Obtained Loan	*Name of Bank Which Granted Loan*	*Date of Loan*	*Interest Rate*	*Amount*	*Date Loan Due*	*Loan Paid Date*	*Loan Paid Amount*
Carolina Power & Light Company	Old Colony Trust Co.	12/26/22	5%	$ 500,000.00	6 Mos.	6/26/22	$ 500,000.00
Pennsylvania Power & Light Company	Bankers Trust Co.	8/30/23	5½%	500,000.00	10/29/23	9/ 4/23	175,000.00
					$325,000 extended 10 days from maturity	11/ 3/23	325,000.00
Pennsylvania Power & Light Company	Chase National Bank	8/30/23	5½%	500,000.00	11/28/23	9/ 4/23	175,000.00
						11/ 3/23	325,000.00
Pennsylvania Power & Light Company	Chase National Bank	12/30/24	5%	2,000,000.00	3/30/25	2/10/25	1,000,000.00
						3/10/25	1,000,000.00
Carolina Power & Light Company	Old Colony Trust Co.	11/ 2/25	4¾%	1,500,000.00	4 Mos.	11/24/25	1,500,000.00
Portland Gas & Coke Company	Central Union Trust Co.	12/29/25	5%	600,000.00	60 Days	2/11/26	600,000.00
Portland Gas & Coke Company	Irving Bank-Columbia Trust Co.	12/29/25	5½%	1,200,000.00	60 Days	2/11/26	1,200,000.00
Kansas Gas & Electric Company	Guaranty Trust Co.	12/30/25	5%	500,000.00	60 Days	2/ 9/26	500,000.00
Pacific Power & Light Company	United States Mortgage & Trust Co.	12/30/25	5%	400,000.00	60 Days	2 /9/26	400,000.00
Kansas Gas & Electric Company	Guaranty Trust Co.	12/31/27	4½%	2,300,000.00	Demand	1/30/28	2,300,000.00
Pacific Power & Light Company	Bankers Trust Co.	12/31/27	4½%	1,500,000.00	Demand	1/30/28	1,500,000.00
Portland Gas & Coke Company	Bankers Trust Co.	12/31/27	4½%	4,000,000.00	Demand	1/30/28	4,000,000.00

Under date of March 31, 1928 Electric Bond and Share Company borrowed from Guaranty Trust Company of New York, $16,000,000.00, @ 3½%. On the same date, Electric Bond and Share Company loaned to American Gas & Electric Company, $16,000,000.00 @ 3½%. Under date of May 1, 1928, American Gas & Electric Company paid Electric Bond and Share Company, $16,000,000.00 with interest, Electric Bond and Share Company in turn repaid the Guaranty Trust Company of New York on the same date, May 1, 1928, $16,000,000.00 with interest.

5560

Exhibit 96

5561 **SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE**

January 1, 1920 to December 31, 1935

BONDS

(opposite page)

5562

Exhibit 96 (Continued)

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

1920	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Publ
August to October	Southwestern Power & Light Company 8% Gold Notes	Bonbright & Co. Inc. Halsey, Stuart & Co.	$ 2,000,000	87	*
October	Scranton Electric Company 10 Year 8% Secured Gold Notes	E. B. Smith & Co.	1,000,000	93	*
September	Pacific Power & Light Company 1st Lien & Gen. Mtg. 8% Bonds	W. C. Langley & Co.	1,000,000	90½	*
October	Nebraska Power Company 1st Mtg. 30 Year 6% Gold Bonds	Harris, Forbes & Co.	1,600,000	78½	*
1921					
January	Southwestern Power & Light Company 20 Year 8% Secured Gold Notes	W. P. Bonbright & Co. Halsey, Stuart & Co.	1,250,000	88.60	97
January	The Ohio Power Company 1st & Ref. Mtge. 7% S. F. G. Bds. Series A	Dillon, Read & Co.	10,000,000	90	95¼
January	Portland Gas and Coke Company 1st Lien & Gen. Mtg. Gold Bonds, Series of "7's due 1940"	Harris, Forbes & Co. White, Weld & Co.	800,000	89	95
January	Utah Power & Light Company 1st Lien & Gen. Mtge. 7% Gold Bonds due 1941	Harris, Forbes & Co.	500,000	92	97
February	Idaho Power Company 1st Lien & Gen. Mtg. 7% Gold Bonds	Harris, Forbes & Co.	1,000,000	88.90	94¼
February	Pennsylvania Power & Light Company 1st & Ref. Mtg. 7% Gold Bonds, Series A	Guaranty Co. of New York Harris, Forbes & Co. Halsey, Stuart & Co. Brown Bros. & Co.	8,000,000	85½	92
February	Southwestern Power & Light Company 20 Year 8% Secured Gold Notes	Bonbright & Co. Inc. Halsey, Stuart & Co.	250,000	88.60	97
May	American Power & Light Company 20 Year 8% Secured Gold Bonds	Bonbright & Co., Inc. W. C. Langley & Co.	3,500,000	88½	98½
June	Southwestern Power & Light Company 20 Year 8% Secured Gold Notes, Series B	Bonbright & Co. Inc. Halsey, Stuart & Co.	750,000	93	*

* Information not available.

Exhibit 96

5566

5567

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (Continued)

1921	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Prices to Syndicate or Dealers	Price to Public
August	Portland Gas and Coke Company 1st Lien & Gen. Mtg. Gold Bonds, Series of "7's due 1940"	White, Weld & Co. Harris, Forbes & Co.	$ 250,000	89	95
August	Utah Light and Traction Company 8 % 1st Mtg. Collat. Gold Bonds	Tucker Anthony & Co. Robert Garrett & Sons Brook Stokes & Co.	1,401,000	91	99½
October	Nebraska Power Company 1st Mtg. 30 Yr. Gold Bonds, 6 % Series B	Harris, Forbes & Co.	350,000	86	*
October	Pacific Power & Light Company 8 % 1st Lien & Gen. Mtg. Gold Bonds	W. C. Langley & Co.	250,000	94	*
November	Utah Power & Light Company 1st Lien & Gen. Mtg. 6 % Gold Bonds	Harris, Forbes & Co.	2,000,000	88	94
1922					
February	Kansas Gas and Electric Co. 1st Mtg. S. F. 6 % Gold Bonds, Series A	Dillon, Read & Co.	8,000,000	91	
March	do.	do.	1,000,000	91	96½
March	Southwestern Power & Light Company 6 % Gold Debenture Bonds, Series A	Bonbright & Co. Inc.	3,000,000	83	89
May	Utah Power & Light Company 6 % Gold Debenture Bonds, Series A	Hayden, Stone & Co. Bonbright & Co. Inc. Electric Bond & Share Co.	5,000,000	85	91
April	Portland Gas and Coke Co. 1st & Ref. Mtg. 5 % Gold Bonds due 1940	Harris, Forbes & Co. White, Weld & Co.	165,000	87½	*
July	Kansas Gas and Electric Company 1st Mtg. S. F. 6 % Gold Bonds, Series A	Dillon, Read & Co.	1,000,000	91	96½
July	Texas Power & Light Company 6 % Gold Debenture Bonds, Series A	Bonbright & Co. Inc.	2,000,000	84½	90½
June	Scranton Electric Company 1st & Ref. Mtg. 5 % Bonds due 1937	Harris, Forbes & Co.	190,000	91½	*
	do.	do.	271,000	91½	*
July	do.	do.	373,000	91½	*

Exhibit 96

5572

5573

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (Continued)

1922	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
July	Portland Gas and Coke Co. 1st & Ref. Mtg. 5% Gold Bonds due 1940	Harris, Forbes & Co. White, Weld & Co.	$ 100,000	87½	*
August	Indiana General Service Co. 1st Mtg. 5% Gold Bonds due 1948	Dillon, Read & Co.	3,322,000	86	90
August	Wheeling Electric Company 1st Mtg. 30 Yr. 5% Gold Bonds due 1941	Dillon, Read & Co.	487,000	88	92
September	Nebraska Power Company 6% Gold Debenture Bonds, Series A due 2022	Bonbright & Co. Inc.	3,500,000	84½	90½
September	Kansas Gas and Electric Company 6% Gold Debenture Bonds, Series A	Bonbright & Co. Inc.	3,000,000	84½	90½
September	Pennsylvania Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series B, 5%	Harris, Forbes & Co. Halsey, Stuart & Co. Inc. Guaranty Co. of New York Brown Bros & Co.	7,000,000	88¾	92¾
October	The Ohio Power Company 1st & Ref. Mtg. 5% Gold Bond, Series B	The Eastern Corporation	6,132,500	88¾	93½
October	American Gas and Electric Company 6% Gold Debenture Bonds	Electric Bond and Share Company	7,500,000	93½	100
October	Indiana General Service Company 1st Mtge. 5% Gold Bonds	American Gas and Electric Company	500,000	86+	*
October	Dallas Power & Light Company 1st Mtg. 5% Gold Bonds, Series C	Lee, Higginson & Co.	1,000,000	90	94
October	New Orleans Public Service Inc. 1st & Ref. Mtg. 5% Gold Bonds, Series A	Dillon, Read & Co.	12,000,000	85	90
December	Utah Power & Light Co. 1st Mtge. 5% Bonds due 1944	Harris, Forbes & Co.	2,156,000	87⅜	*
1923					
January	The Ohio Power Company 1st & Ref. Mtg. 5% Gold Bonds, Series B	The Eastern Corporation	2,000,000	88¾	92
January	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series "A" 5%	Guaranty Co. of New York Harris, Forbes & Co.	5,500,000	85	89½
January	Yadkin River Power Company 1st Mtg. 30 Year 5% Gold Bonds	W. C. Langley & Co. Spencer Trask & Co. Bonbright & Co. Inc	4,000,000	84½	89

Exhibit 96

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5579

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (*Continued*)

1923	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
February	The Ohio Power Company 1st & Ref. Mtg. 6 % Gold Bonds, Series C	Bonbright & Co. Inc.	$ 264,000	93	*
March	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	5,000,000	89½	95½
March	Idaho Power Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	3,200,00	85½	89½
April	Houston Lighting & Power Company 1st Lien & Refdg. Mtg. Gold Bonds, Series A 5 %	Halsey, Stuart & C.	2,000,000	85.34	89½
May	Arkansas Central Power Company 1st Lien & Refdg. Mtg. Gold Bonds, Ser. due 1948	Harris, Forbes & Co. Bonbright & Co. Inc. Tucker, Anthony & Co.	2,500,000	89½	94½
May	Kansas Gas and Electric Company 1st Mtg. S. F. 6 % Gold Bonds, Series A	Dillon, Read & Co.	3,500,000	90¾	95½
May	Utah Power & Light Company 1st Lien & Gen. Mtg. G. Bds. Series of 6's due 1944	Harris, Forbes & Co.	3,500,000	94¼	99
June	Kansas Gas and Electric Company 1st Mtg. S. F. 6 % Gold Bonds, Series A	Dillon, Read & Co.	500,000	91½	95½
June	Memphis Power & Light Company 1st & Refunding Mtg. 6 % Gold Bonds, Ser. B-1948	Guaranty Co. of N. Y. Harris, Forbes & Co.	2,000,000	95	99½
June	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 6 % Ser. of 1953	Bonbright & Co. Inc. W. C. Langley & Co.	2,500,000	92	97½
August	Dallas Power & Light Company 1st Mtg. 6 % Gold Bonds, Series A	Lee Higginson & Co.	1,000,000	96	100
September	The Ohio Power Company 1st & Ref. Mtg. Gold Bonds, Series C-6 %	The Eastern Corporation	6,000,000	94	99
October	Pennsylvania Power & Light Company 1st & Ref. Mtg. Bonds, Series C 6 %	Guaranty Co. of N. Y. Harris, Forbes & Co. Halsey, Stuart & Co. Inc. Brown Bros. & Co.	4,000,000	94½	99
October	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Ser. B 6 %	Halsey, Stuart & Co.	2,000,000	94	98½
November	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 6 % Ser. due 1950	Harris, Forbes & Co. Tucker, Anthony & Co. Bonbright & Co. Inc. Coffin & Burr Minnesota Loan & Trust Co.	8,300,000	92¾	97¾

Exhibit 96

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SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

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January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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BONDS (Continued)

1923	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
December	The Memphis Street Railway Company Equip. Tr. 6 % Gold Ctfs., Series of 1923	Harris, Forbes & Co. Guaranty Co. of N. Y.	$ 344,000	95.86	100 to 98.16
December	The Ohio Power Company 1st & Ref. Mtg. 6 % Gold Bonds	The Eastern Corporation	2,000,000	94	98½
December	American Gas and Electric Company 6 % Gold Debenture Bonds	Bonbright & Co. Inc.	3,500,000	89¼	95
1924					
February	The Ohio Power Company 1st & Ref. Mtg. 6 % Gold Bonds, Series C	The Eastern Corporation	2,000,000	95½	99
February	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 6 % Series of 1953	W. C. Langley & Co.	1,000,000	96	100
February	Texas Power & Light Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	1,300,000	89½	93½
March	Dallas Power & Light Company 1st Mtg. 5½ % Gold Bonds, Series D	Lee, Higginson & Co.	1,000,000	92½	96½
March	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series C 5½ %	Halsey, Stuart & Co.	2,000,000	92.475	96½
March	American Gas and Electric Co. Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	91,000	89¼	*
April	Southwestern Power & Light Company 1st Lien 30 Year 5 % Gold Bonds due 6/1/43	Bonbright & Co. Inc. Halsey, Stuart & Co.	3,500,000	83¾	88¾
April	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series A 5 %	Guaranty Co. of N. Y. Harris, Forbes & Co.	1,000,000	86⅝	91
April	Birmingham Electric Company 1st & Ref. Mtg. Gold Bonds, 6 % Series due 1954	Harris, Forbes & Co.	8,000,000	92½	97½
April	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	5,000,000	87¾	93½
May	American Gas and Electric Company 6 % Gold Debenture Bonds due 2014	Bonbright & Co. Inc.	4,382,000	88¾	94½
May	Carolina Power & Light Company 1st & Ref. Mtg. 6 % Gold Bonds	W. C. Langley & Co.	1,300,000	96½	100½
May	The Ohio Power Company 6 % Gold Debenture Bonds due 2024	The Eastern Corporation	2,000,000	85	91

Exhibit 96

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5591

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued) 1865

BONDS (Continued)

1924	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
June	Minnesota Power & Light Company 1st & Refdg. Mtg. Gold Bonds, 6 % Series due 1950	Bonbright & Co. Inc. Tucker, Anthony & Co. Harris, Forbes & Co. Coffin & Burr Inc.	$ 4,000,000	95½	100
June	Nebraska Power Company 1st Mtg. 30 Yr. Gold Bonds, Series A 5 %	Harris, Forbes & Co.	1,000,000	91	95
June	Texas Power & Light Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	1,500,000	91	95
June	Arkansas Central Power Company 1st Lien & Ref. Mtg. 6 % Gold Bonds	Harris, Forbes & Co.	1,000,000	96	100
July	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series A 5 %	Halsey, Stuart & Co.	1,000,000	88½	91½
December	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series A 5 %	Guaranty Co. of New York Harris, Forbes & Co.	1,000,000	92½	96
July	Idaho Power Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	3,000,000	89½	93½
July	Atlantic City Electric Company 1st & Ref. Mtg. Gold Bonds, 5½ % Series due 1954	Edward B. Smith & Co. Tucker, Anthony & Co.	2,750,000	94¾	98¾
August	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	5,000,000	89¾	94¼
August	Rockford Electric Company 1st & Ref. Mtg. 5 % Gold Bonds	Dillon, Read & Co.	924,000	93	98
August	American Gas and Electric Company 6 % Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	9,000,000	90	95½
September	Southwestern Power & Light Company 1st Lien 30 Year 5 % Gold Bonds due June 1, 1943	Bonbright & Co. Inc. Halsey, Stuart & Co.	3,500,000	86¾	91½
October	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	5,000,000	89½	94½
October	American Gas and Electric Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	850,000	90¼	95½
November	Atlantic City Electric Company 1st Ref. Mtg. Gold Bonds, 5½ %	Tucker, Anthony & Co. Edward B. Smith & Co.	750,000	96.	99¼
December	Indiana General Service Company 1st Mtg. 5 % Gold Bonds	Dillon, Read & Co.	884,000	92	94½

Exhibit 96

5596

5597

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (Continued)

1925	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
February	Texas Power & Light Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	$ 2,000,000	94	97½
February	Southwestern Power & Light Company 6 % Gold Debenture Bonds, Series A	Bonbright & Co. Inc.	2,000,000	87	91½
February	Nebraska Power Company 1st Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	2,000,000	95	98½
February	American Gas and Electric Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	9,000,000	92½	97
February	Indiana & Michigan Electric Company 1st & Ref. Mtg. 5 % Gold Bonds	Harris, Forbes & Co.	8,000,000	91½	95½
February	Pennsylvania Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series D 5 %	Guaranty Co. of New York Harris, Forbes & Co. Halsey, Stuart & Co. Inc. Brown Bros. & Co.	8,000,000	92	95½
March	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co.	8,000,000	91	95½
May	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1955	Harris, Forbes & Co. Tucker, Anthony & Co. Bonbright & Co. Inc. Coffin & Burr	3,500,000	93¼	97
June	New Orleans Public Service Inc. 1st & Ref. Mtg. Gold Bonds, Series B 5 %	Dillon, Read & Co.	5,000,000	91	94½
August	Southeastern Power & Light Company 6 % Gold Debentures, Series A	Bonbright & Co. Inc.	10,000,000	95½	96½
September	American Power & Light Company Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	5,000,000	91¾	96
December	The Ohio Power Company 1st & Ref. Mtg. 5 % Gold Bonds, Series B	The Eastern Corporation	5,662,000	92	94½
December	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1955	Harris, Forbes & Co.	3,000,000	92¾	96½
1926 anuary	Pennsylvania Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series D 5 % due 1953	Harris, Forbes & Co. Guaranty Co. of N. Y. Halsey, Stuart & Co. Inc. Brown Bros. & Co.	10,000,000	95	98½

Exhibit 96

5602

5603

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (*Continued*)

1926	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
January	Florida Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1954	Bonbright & Co. Inc. Harris, Forbes & Co. Old Colony Trust Company J. G. White & Co., Inc. Tucker, Anthony & Co.	$30,000,000	89¼	93½
January	Lehigh Power Securities Corporation 6 % Gold Debentures, Series A due 2026	Bonbright & Co. Inc. Brown Bros. & Co. Old Colony Trust Company W. C. Langley & Co. Edward B. Smith & Co. Tucker, Anthony & Co. R. E. Wilsey & Co. Inc.	25,000,000	90¼	95
March	Indiana & Michigan Electric Company 1st & Ref. M9g. Gold Bonds, 5 % Series due 1955	Harris, Forbes & Co.	3,283,000	94½	98
March	Wheeling Electric Company 1st Mtg. 5 % Gold Bonds due 1941	Dillon, Read & Co.	770,000	96¾	99
March	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series of 1956	W. C. Langley & Co.	18,000,000	93¾	97¾
March	American Gas and Electric Company 6 % Gold Debenture Bonds due 2014	Bonbright & Co. Inc.	7,500,000	95¾	99½
April	American Power & Light Company. Gold Debenture Bonds, American 6 % Series	Bonbright & Co. Inc.	10,000,000	94¼	98
April	Appalachian Electric Power Company 1st & Ref. Mtg. Gold Bonds, 5 % Series of 1956	Bonbright & Co. Inc. Harris, Forbes & Co. Tucker, Anthony & Co. Coffin & Burr. Inc. A. B. Leach & Co. Inc. W. C. Langley & Co. Old Colony Corp. Jackson & Curtis	35,000,000	93	97
May	Atlantic City Electric Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Edward B. Smith & Co. Tucker Anthony & Co.	976,000	96	98½
May	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series A 5 % due 1953	Halsey, Stuart & Co.	1,000,000	96½	99½
June	The Ohio Power Company. 1st & Ref. Mtg. Gold Bonds, Series D 4½ % due 1954	The Eastern Corporation	9,635,000	90	93

Exhibit 96

5608

5609

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

5610

BONDS (Continued)

1926	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
July	Florida Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1954	Bonbright & Co. Inc. Harris, Forbes & Co. Old Colony Corp. J. G. White & Co. Tucker, Anthony & Co.	$12,000,000	91½	95
July	Dallas Railway & Terminal Company 1st Mtg. Gold Bonds, 6 % Series due 1951	Tucker, Anthony & Co. Halsey, Stuart & Co. Old Colony Corp. W. C. Langley & Co.	5,000,000	90¾	96½
August	National Power & Light Company 6 % Gold Debentures, Series A due 2026	Tucker, Anthony & Co. Old Colony Corp. W. C. Langley & Co. Bonbright & Co. Inc. Jackson & Curtis Hale Waters & Co. Toerge & Schiffer	9,500,000	94	98
September	Nebraska Power Company 1st Mtg. Gold Bonds, Series A 5 % due 1949	Harris, Forbes & Co.	1,000,000	98½	101½
September	Dallas Power & Light Company 1st Mtge. Gold Bonds, Series A 5% due 1952	Lee, Higginson & Co.	2,000,000	97¼	100
November	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series A 5 % due 1953	Halsey, Stuart & Co.	2,000,000	96½	99½
November	Texas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co.	16,000,000	93	97
November	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co. W. C. Langley & Co. Bonbright & Co, Inc. Old Colony Corp. Tucker, Anthony & Co. John Nickerson & Co. Guaranty Co. of N. Y.	18,000,000	91¾	95¾
December	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1955	Tucker, Anthony & Co. Harris, Forbes & Co. Bonbright & Co. Inc. Coffin & Burr Inc.	2,700,000	96	99
1927 January	Central Arizona Light & Power Company 1st & Ref. Mtg. Gold Bonds, Series C 5½ % due 1947	First Securities Co. of Los Angeles	1,300,000	95½	100
January	New Orleans Public Service Inc. 1st & Ref. Mtg. Gold Bonds, Series B, 5 % due 1955	Dillon, Read & Co. Electric Bond and Share Co. Brown Bros. & Co. Hibernia Bank & Trust Co. Old Colony Corp. Newman & Co.	8,000,000	92¾	96

Exhibit 96

5614

5615

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

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Exhibit 96 (Continued)

BONDS (Continued)

1927	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
March	Utah Power & Light Company 1st Mtg. 5 % Gold Bonds due 1944	Harris, Forbes & Co.	$ 2,000,000	94⅞	98
May	Dallas Power & Light Company 1st Mtg. 5 % Gold Bonds, Series C due 1952	Lee, Higginson & Co.	1,000,000	97¼+	100
May	Idaho Power Company 1st Mtg. 5 % Gold Bonds due 1947	Harris, Forbes & Co.	800,000	97¼	100
June	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1955	Harris, Forbes & Co.	1,500,000	96¼	99¼
June	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series A 5 % due 1953	W. C. Langley & Co. Halsey, Stuart & Co. Inc.	2,000,000	97	99¾
July	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series of 1956	Bonbright & Co. Inc. W. C. Langley & Co. Old Colony Corp.	10,000,000	97¼	100¾
August	Southwestern Power & Light Company 1st Lien 5 % Gold Bonds due 1943	Bonbright & Co. Inc. Halsey, Stuart & Co. Inc.	3,000,000	95½	99
September	Atlantic City Electric Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Edward B. Smith & Co. Tucker, Anthony & Co. Bonbright & Co. Inc.	2,762,000	97½	100
September	Texas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co.	4,000,000	95	98
November	The Ohio Power Company 1st & Ref. Mtg. 4½ % Gold Bonds, Series D due 1956	Lee, Higginson & Co. Dillon, Read & Co. Continental and Commercial Co.	9,702,000	92	94¾
November	Mississippi Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	W. C. Langley & Co. John Nickerson & Co. Old Colony Corp. Guaranty Co. of New York J. G. White & Co. J. & W. Seligman & Co. Caldwell & Co. Tucker, Anthony & Co. Jackson & Curtis	9,000,000	93¾	97¼

Exhibit 96

5620

5621

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

5623

Exhibit 96 (Continued)

BONDS (Continued)

1927	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
November	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Tucker, Anthony & Co. W. C. Langley & Co. Bonbright & Co. Inc. Harris, Forbes & Co. Old Colony Corp. John Nickerson & Co.	$ 3,000,000	95¾	99
December	Louisiana Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	Hale Waters & Co. Old Colony Corp. W. C. Langley & Co. John Nickerson & Co. J. G. White & Co. Inc. Guaranty Co. of New York J. & W. Seligman & Co. Caldwell & Co.	8,000,000	94	97¾
December	Florida Power & Light Company First Mtg. Gold Bonds, 5 % Series due 1954	Harris, Forbes & Co. Bonbright & Co. Inc. Old Colony Corp. J. G. White & Co. Inc. Tucker, Anthony & Co.	10,000,000	94½	97½
1928 January	Portland Gas and Coke Company 1st Lien and Gen. Mtg. G. Bds., Ser. of 4½'s due 1940	Harris, Forbes & Co.	3,000,000	95	97¾
February	The Ohio Power Company 1st & Ref. Mtg. Gold Bonds, Series D 4½ % due 1956	Lee, Higginson & Co. Continental National Co. Dillon, Read & Co. W. C. Langley & Co.	10,018,000	93¼	96
February	Birmingham Electric Company 1st & Ref. Mtg. Gold Bonds, 4½ % Series due 1968	Harris, Forbes & Co.	9,200,000	92½	95¼
March	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Ser. C 4½ % due 1978	Guaranty Co. of New York Harris, Forbes & Co.	2,275,000	93¼	96¼
March	Utah Power & Light Company 1st Lien & Gen. Mtg. Gold Bonds, Series of "4½'s due 1944"	Harris, Forbes & Co.	5,500,000	93.9538	96¾
April	American Gas and Electric Company Gold Debentures, 5 % Series due 2028	Bonbright & Co. Inc.	50,000,000	97½	101
April	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 4½ % Series due 1978	Harris, Forbes & Co.	14,000,000	94½	97¼

Exhibit 96

5626

5627

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

5628

Exhibit 96 (Continued)

BONDS (*Continued*)

1928	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
September	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Bonbright & Co. Inc. W. C. Langley & Co. Old Colony Corp.	$ 2,500,000	96	99½
September	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Series C 4½ % due 1978	Guaranty Co. of New York Harris, Forbes & Co.	3,000,000	89½	93
October	Birmingham Electric Company 1st & Ref. Mtg. Gold Bonds, 4½ % Series due 1968	Harris, Forbes & Co.	3,000,000	89	92½
October	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	W. C. Langley & Co. Bonbright & Co. Inc. Old Colony Corp. Harris, Forbes & Co. Tucker, Anthony & Co. John Nickerson & Co.	3,000,000	92¾	94¼
November	New Orleans Public Service Inc. 1st & Ref. Mtg. 5 % Gold Bonds, Series B due 1955	Dillon, Read & Co. Electric Bond and Share Co. Brown Bros. & Co. Hibernia Bank & Trust Co. Old Colony Corp. M. W. Newman & Sons	5,000,000	94¼	97½
November	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Ser. D 4½ % due 1978	W. C. Langley & Co. Halsey, Stuart & Co. Inc.	2,000,000	89¾	93
November	Louisiana Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	W. C. Langley & Co.	4,500,000	94⅛	97½
1929					
April	Carolina Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series of 1956	W. C. Langley & Co. Bonbright & Co. Inc. Old Colony Corp.	8,000,000	95	99
May	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series A 5 % Due 1953	Halsey, Stuart & Co. Inc. W. C. Langley & Co.	2,000,000	95	98½
1930					
January	The Washington Water Power Company 1st & Gen. Mtg. Gold Bonds, 5 % Series due 1960	White, Weld & Co. Bonbright & Co. Inc.	15,000,000	94½	98½
January	Electric Power & Light Corporation Gold Debentures, 5 % Series due 2030	Bonbright & Co. Inc.	15,000,000 1,000,000	88 89	92½

Exhibit 96

5632

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

5633

BONDS—*Continued*

(opposite page)

5634

Exhibit 96 (Continued)

BONDS (Continued)

1930	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
February	Memphis Power & Light Company 1st & Ref. Mtg. Gold Bonds, Ser. A 5 % due 1948	Guaranty Co. of New York Harris, Forbes & Co.	$ 2,500,000	96	99
February	Utah Power & Light Company 1st Mtg. 5 % Gold Bonds, due 1944	Harris, Forbes & Co.	4,000,000	95	98
February	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Ser. A 5 % due 1953	Halsey, Stuart & Co. Inc. W. C. Langley & Co.	2,000,000	94½	97½
February	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co.	6,000,000	90¾	94¾
March	American & Foreign Power Company Inc. Gold Debentures, 5 % Series due 2030	Dillon, Read & Co. Bonbright & Co. Inc.	50,000,000	86	90
April	Minnesota Power & Light Company 1st & Ref. Mtg. Gold Bonds, 4½ % Series due 1978	Harris, Forbes & Co.	4,000,000	90½	93½
April	Texas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co.	4,000,000	95¼	98½
May	National Power & Light Company 5 % Gold Debentures, Series B due 2030	The First National Old Colony Corp. W. C. Langley & Co. Bonbright & Co. Inc. Tucker, Anthony & Co. Jackson & Curtis Hale Waters & Co. Toerge & Schiffer	15,000,000	86½	91
May	Kansas Gas and Electric Company 1st Mtg. Gold Bonds, 4½ % Series due 1980	Dillon, Read & Co.	16,000,000	90½	93½
June	Central Arizona Light & Power Company 1st Mtg. Gold Bonds, 5 % Series due 1960	Security-First National Co. Harris Trust and Savings Bank E. H. Rollins and Sons	7,500,000	92¼	96¼
July	Louisiana Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	W. C. Langley & Co. John Nickerson & Co. Inc. Guaranty Co. of New York The First National Old Colony Corp. J. G. White & Co. Inc. J. & W. Seligman & Co. Rogers Caldwell & Co. Inc. Hale, Waters & Co.	2,000,000	93¼	97
July	Pacific Power & Light Company 1st Mtg. & Prior Lien Gold Bonds, 5 % Ser. due 1955	W. C. Langley & Co. Harris, Forbes & Co.	17,000,000	92	97

Exhibit 96

5638

5639

SALES OF BONDS AND PREFERRED STOCKS
NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

5640

BONDS (Continued)

	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
1930					
July	Mississippi Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	W. C. Langley & Co. John Nickerson & Co. Inc. Guaranty Co. of N. Y. The First National Old Colony Corp. J. G. White & Co. Inc. Rogers Caldwell & Co. Inc.	$ 7,000,000	91	95
July	Texas Electric Service Company 1st Mtg. Gold Bonds, 5 % Series due 1960	Bonbright & Co. Inc. Halsey, Stuart & Co. Inc. Harris, Forbes & Co.	33,730,000	93¾	97¾
September	Electric Power & Light Corporation Gold Debentures, 5 % Series due 2030	Bonbright & Co. Inc.	15,000,000	88½	92½
September	Tennesse Public Service Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1970	The First National Old Colony Corp. W. C. Langley & Co. Bonbright & Co. Inc. Tucker, Anthony & Co. Jackson & Curtis Hale, Waters & Co. Toerge & Schiffer	7,000,000	92½	96½
1931					
January	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Ser. due 1956	Harris, Forbes & Co.	3,000,000	94	98
January	Texas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Harris, Forbes & Co.	4,000,000	95	99
January	Houston Lighting & Power Company 1st Lien & Refunding Mtg. Gold Bonds, Ser. D. 4½'s due 1978	Halsey, Stuart & Co. Inc. W. C. Langley & Co.	4,000,000	88½	92½
February	Louisiana Power & Light Company 1st Mtg. Gold Bonds, 5 % Series due 1957	W. C. Langley & Co. John Nickerson & Co. Inc. J. G. White & Co. Inc. Guaranty Co. of New York J. & W. Seligman & Co. The First National Old Colony Corp. Hale, Waters & Co.	3,000,000	94	98
April	Pennsylvania Power & Light Company 1st Mtg. Gold Bonds 4½ % Series due 1981	Guaranty Co. of New York Harris, Forbes & Co. Halsey, Stuart & Co. Inc. Brown Bros. Harriman & Co.	100,000,000 2,000,000	93 94	96½ 96½
May	Nebraska Power Company 1st Mtg. Gold Bonds, 4½ % Series due 1981	Harris, Forbes & Co. Coffin & Burr, Inc. Bonbright & Co. Inc.	16,500,000	99½	102½

Exhibit 96

5644

5645

SALES OF BONDS AND PREFERRED STOCKS NEGOTIATED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

BONDS—*Continued*

(opposite page)

5646

Exhibit 96 (Continued)

BONDS (*Continued*)

1931	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Principal Amount	Price to Syndicate or Dealers	Price to Public
June	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series E 4½ % due 1981	Halsey, Stuart & Co. Inc.	$ 4,500,000	96	98½
July	Arkansas Power & Light Company 1st & Ref. Mtg. Gold Bonds, 5 % Series due 1956	Chase Harris Forbes Corp.	2,000,000	96½	100
August	Houston Lighting & Power Company 1st Lien & Ref. Mtg. Gold Bonds, Series E 4½ % due 1981	Halsey, Stuart & Co. Inc.	5,000,000	95½	98½
July	Pacific Power & Light Company 1st Mtg. & Prior Lien Gold Bonds, 5 % Series due 1955	W. C. Langley & Co. Chase Harris Forbes Corp.	3,500,000	95	98½
1933					
January	Dallas Power & Light Company First Mtg. 5 % Gold Bonds, Ser. C. due July, 1952	Lee, Higginson Corp.	500,000	97	100
February	Shanghai Power Company First Mortgage Debentures, 5½ % Ser. due 1973	Hongkong & Shanghai Banking Corp Chekiang Industrial Bank Ltd. International Savings Society Benjamin & Potts Swan, Culbertson & Fritz	24,000,000 (a) 9,000,000 (a)	93 92	
1934					
February	Shanghai Power Company First Mortgage Debentures, 5½ % Dollar Ser. due 1973	Hongkong & Shanghai Banking Corp The Chekiang Industrial Bank Ltd. International Savings Society Benjamin & Potts Swan, Culbertson & Fritz	CS $21,000,000 (b)	95½	
1935					
February	Shanghai Power Company First Mortgage Debentures 5½ % Dollar Series due 1973		CS $20,000,000 (b)	97¼	
October	Texas Power & Light Company First Mortgage Bonds, 4¾ % Series due 1965	American Power & Light Co. Electric Bond and Share Co. The Aetna Life Insurance Co. The Equitable Life Assurance Society of the United States	$ 4,900,000 4,800,000 300,000 5,000,000		
			$15,000,000 (c)	104.94	

(a) Amount expressed in Chinese Taels

(b) Amount expressed in Chinese Silver Dollars

(c) Sold at private sale for investment and without public offering.

Exhibit 96

5650

5651

SALES OF PREFERRED STOCK NEGOTIATED BY BOND AND SHARE

PREFERRED STOCK

(opposite page)

5652

SALES OF PREFERRED STOCK NEGOTIATED BY BOND AND SHARE

PREFERRED STOCK (Continued)

1920	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Shares	Price to Syndicate or Dealers	Price to Public
March to December	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co., Inc.	3,000	100	*
1921					
November	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co., Inc.	12,500	100	89
February 1922 to March 1923	Pennsylvania Power & Light Co. $7 Cumulative Preferred Stock	Various Dealers	100	87	(1)
			40,388	90	96
			10,068	92	98
			1,000	94	*
			8,444	95	*
September	Utah Power & Light Company 7 % Cumulative Preferred Stock—$100 Par	Various Dealers	22,000	91	96
October	Pacific Power & Light Company 7 % Cumulative Preferred Stock—$100 Par	Blyth, Witter & Co.	5,200	94½	100
November	do	Blyth, Witter & Co.	2,800	94½	
December	do	Blyth, Witter & Co.	4,350	94½	
December	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co.	50,000	100	97
1923					
January	Nebraska Power Company 7% Cumulative Preferred—$100 Par	Bonbright & Co. Inc.	10,000	93	98½
January to June	Alabama Power Company $7 Cumulative Preferred	Various Dealers	20,000	93	98
February	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co. Inc.	10,000	100	97½
July	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co. Inc.	27,500	100	97½
November	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co.	24,000	100	97½
December	American & Foreign Power Company Inc. $7 Preferred Stock Allotment Certificates	Dillon, Read & Co.	400,000	86	96
March 1923 to February 1924	Idaho Power Company 7 % Preferred Stock—$100 Par	Various Dealers	11,532	93	98

* Information not available.

1886

Exhibit 96

5656

SALES OF PREFERRED STOCK NEGOTIATED BY

5657

BOND AND SHARE

PREFERRED STOCK—*Continued*

(opposite page)

5658

Exhibit 96 (Continued)

PREFERRED STOCK (Continued)

1923	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Shares	Price to Syndicate or Dealers	Price to Public
February 1923 to February 1924	Kansas Gas and Electric Company 7% Preferred Stock—$100 Par	Various Dealers	10,313	93	98
1924					
July 1923 to February 1924	Carolina Power & Light Company 7% Cumulative Preferred—$100 Par	Various Dealers	4,750	93	*
January	Southwestern Power & Light Company 7% Preferred Stock—$100 Par	Bonbright & Co. Inc.	14,044	90½	96½
January	Memphis Power & Light Company $7 Preferred Stock	Old Colony Trust Co.	5,500 500	91 93	97
March to July	Alabama Power Company $7 Cumulative Preferred Stock	Various Dealers	30,000	93	98
April	Pennsylvania Power & Light Company $7 Cumulative Preferred Stock	Dillon, Read & Co.	20,000	94	100
April	Southwestern Power & Light Company 7% Cumulative Preferred Stock—$100 Par	Bonbright & Co. Inc.	10,000	90½	96½
May	Knoxville Power & Light Company 7% Cumulative Preferred Stock—$100 Par	Old Colony Trust Co. W. C. Langley & Co.	5,000	92	98
June	Southwestern Power & Light Company 7% Cumulative Preferred Stock—$100 Par	Bonbright & Co. Inc.	20,000	90½	96½
July	Carolina Power & Light Company $7 Cumulative Preferred Stock	Old Colony Trust Company W. C. Langley & Co.	8,000	93¾	99½
July	Pennsylvania Power & Light Company $7 Cumulative Preferred Stock	Guaranty Co. of N. Y. Brown Bros. & Co.	25,000	94½	100
October	Memphis Power & Light Company $7 Cumulative Preferred Stock	Old Colony Trust Company	5,000	93	98
October	Minnesota Power & Light Company 7% Cumulative Preferred Stock—$100 Par	Tucker, Anthony & Co.	22,000	93¾	98
October	Arkansas Central Power Company $7 Cumulative Preferred Stock	Old Colony Trust Company W. C. Langley & Co.	5,000	93	98
December	New Orleans Public Service Inc. $7 Cumulative Preferred Stock	Bonbright & Co. Inc. Old Colony Trust Company	22,000	92	97

1888

Exhibit 96

5662

5663 SALES OF PREFERRED STOCK NEGOTIATED BY BOND AND SHARE

PREFERRED STOCK—*Continued*

(opposite page)

5664

Exhibit 96 (Continued)

PREFERRED STOCK (*Continued*)

1924	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Shares	Price to Syndicate or Dealers	Price to Public
December	Birmingham Electric Company $7 Cumulative Preferred Stock	Old Colony Trust Company	20,000	93½	98
December	Knoxville Power & Light Company 7% Cumulative Preferred Stock—$100 Par	Old Colony Trust Company W. C. Langley & Co.	5,000	93½	99
December	Memphis Power & Light Company $7 Cumulative Preferred Stock	Old Colony Trust Company	10,000	94¼	99
December	Electric Investors Inc. Common Stock	Hale Waters & Co.	10,000	45.83+	*
December	Electric Bond and Share Company 6% Preferred Stock	Bonbright & Co. Inc.	26,000	100	102
1925 February	Electric Investors Inc. Common Stock	Bernard Schiffer & Co., Dominick & Dominick Chas. D. Barney & Co.	30,000 60,000	43 44	48
March	Electric Power & Light Corporation $7 Cumulative Preferred Allotment Certificates	Bonbright & Co. Inc.	400,000	94	100
August	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co. Inc.	50,000	90	95
October	The Ohio Power Company 6% Cumulative Preferred Stock—$100 Par	W. E. Hutton & Co. Otis & Company	2,000 18,000	91 91	95
June July	Southwestern Power & Light Company 7% Cumulative Preferred Stock	Bonbright & Co. Inc. Bonbright & Co. Inc.	5,000 5,000	90½ 90½	96½
1926 February	National Power & Light Company $7 Cumulative Preferred Stock	Old Colony Corp. et al W. C. Langley & Co. Bonbright & Co. Inc. Tucker, Anthony & Co. Jackson & Curtis Hale Waters & Co. Toerge & Schiffer	100,000	95½	100
December 1926 to January 1927	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co., Inc.	12,885	90	*

Exhibit 96

5668

5669

SALES OF PREFERRED STOCK NEGOTIATED BY BOND AND SHARE

PREFERRED STOCK—*Continued*

(opposite page)

5670

Exhibit 96 (Continued)

PREFERRED STOCK (*Continued*)

1927	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Shares	Price to Syndicate or Dealers	Price to Public
January	Florida Power & Light Company $7 Cumulative Preferred Stock	Bonbright & Co. Inc. Old Colony Corp. J. G. White & Co. Inc. Harris, Forbes & Co. Tucker, Anthony & Co. W. C. Langley & Co.	70,000	95¼	100
February	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co., Inc.	150,000	103½	107½
August	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co., Inc.	15,000	92	96¾
November	Electric Bond and Share Company 6 % Preferred Stock	Bonbright & Co., Inc.	100,000	109	109
1928					
April	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co., Inc.	20,000	99½	103½
May	do.	Bonbright & Co., Inc.	33,000	99½	103
			16,000	100½	103
November	do.	Bonbright & Co., Inc.	25,000	95	99
November	Louisiana Power & Light Company $6 Cumulative Preferred Stock	John Nickerson & Co. W. C. Langley & Co. Guaranty Co. of New York J. G. White & Co. Inc. Caldwell & Co.	25,000	96	100
1929					
January	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co. Inc.	25,000	95¼	99
March	do.	Bonbright & Co. Inc.	40,000	95¼	99
August	Electric Bond and Share Company $6 Preferred Stock	Bonbright & Co. Inc.	100,000	101	105
August & September	Electric Investors Inc. $6 Preferred Stock	Bonbright & Co. Inc.	50,000	94½	98½
April	Electric Bond and Share Company $6 Preferred Stock	Bonbright & Co. Inc.	250,000	102¼	106
1930					
March	Arkansas Power & Light Company $6 Cumulative Preferred Stock	W. C. Langley & Co. The First National Old Colony Corp.	30,000	95½	100

Exhibit 96

5674

5675

SALES OF PREFERRED STOCK NEGOTIATED BY BOND AND SHARE

PREFERRED STOCK—*Continued*

(opposite page)

5676

Exhibit 96 (Continued)

PREFERRED STOCK (*Continued*)

1930	Company and Description of Issue	Syndicate or Dealers to Whom Sold	Total Shares	Price to Syndicate or Dealers	Price to Public
April	Mississippi Power & Light Company $6 Cumulative Preferred Stock	W. C. Langley & Co. The First National Old Colony Corp.	40,000	95½	100
May	National Power & Light Company $6 Cumulative Preferred Stock	The First National Old Colony Corp. W. C. Langley & Co. Bonbright & Co. Inc. Tucker, Anthony & Co. Jackson & Curtis Hale Waters & Co. Toerge & Schiffer	150,000	98¾	101½
June	Electric Bond and Share Company $5 Preferred Stock	Bonbright & Co., Inc.	200,000	87½	91½
June	Electric Power & Light Corporation $6 Cumulative Preferred Stock	Bonbright & Co., Inc.	100,000	96	100½
June	American & Foreign Power Company Inc. Cumulative $6 Preferred Stock	Bonbright & Co., Inc. Dillon, Read & Co.	250,000	94	98½
September	Electric Power & Light Corporation Cumulative $6 Preferred Stock	Bonbright & Co., Inc.	100,000	96	100½
1931					
May	United Gas Corporation $7 Preferred Stock	Dominick & Dominick.	21,637	90	*
August	The Montana Power Company $6 Cumulative Preferred Stock	Lee, Higginson & Co. Guaranty Co. of N. Y. J. & W. Seligman	16,000	97	100
August	Electric Bond and Share Company $5 Preferred Stock	Bonbright & Co., Inc.	100,000	86¼	89¾

*Not available

Exhibit 97

5680

SALES OF PREFERRED STOCK OF SERVICED COMPANIES IN CUSTOMER OWNERSHIP CAMPAIGNS UPON WHICH A COMMISSION WAS RECEIVED BY BOND AND SHARE

January 1, 1920 to December 31, 1935

	No. of Shares
AMERICAN GAS SUBSIDIARIES	
Appalachian Electric Power Company	146,013
5681 Atlantic City Electric Company	22,024
Indiana General Service Company	13,378
Indiana & Michigan Electric Company	32,583
Ohio Power Company, The	170,665
Rockford Electric Company	1,886
Scranton Electric Company	18,845
Wheeling Electric Company	19,037
AMERICAN COMPANY SUBSIDIARIES	
Central Arizona Light & Power Company	14,951
Florida Power & Light Company	57,916
Fort Worth Power & Light Company	10,065
5682 Kansas Gas & Electric Company	55,113
Minnesota Power & Light Company	127,398
Montana Power Company, The	148,637
Nebraska Power Company	26,950
Pacific Power & Light Company	26,788
Portland Gas & Coke Company	34,668
Southwestern Power & Light Company	9,037
Texas Power & Light Company	87,907
Texas Electric Service Company	59,907
Washington Water Power Company, The	38,939

Exhibit 97

	No. of Shares	
ELECTRIC COMPANY SUBSIDIARIES		5683
Arkansas Central Power Company	6,115 [1]	
Arkansas Power & Light Company	45,581	
Dallas Power & Light Company	43,368	
Dallas Railway & Terminal Company	3,177	
Idaho Power Company	42,689	
Louisiana Power & Light Company	39,009	
Mississippi Power & Light Company	35,487	
New Orleans Public Service Inc.	57,969	
United Gas Public Service Company	5,306	
Utah Power & Light Company	69,385	
NATIONAL COMPANY SUBSIDIARIES		5684
Asheville Power & Light Company	1,295	
Birmingham Electric Company	37,881	
Carolina Power & Light Company	100,039	
Houston Lighting & Power Company	44,997	
Knoxville Power & Light Company	6,854	
Memphis Power & Light Company	35,088	
Pennsylvania Power & Light Company	406,313	
Tennessee Public Service Company	6,502	
Yadkin River Power Company	7,781	
MISCELLANEOUS		5685
Alabama Power Company	73,870	

NOTE:

The liquidating value of above shares is $100. per share in each case.

[1] 4,012 of these shares were sold prior to December 1925 when Arkansas Central Power Company was a subsidiary of National Company as described in Exhibit 39.

Exhibit 98

5686

BOND AND SHARE
PERSONNEL OF SECURITIES DEPARTMENT

December 1, 1929

Administration:	
Vice Presidents	3
Stenographer	1
Preferred Stock:	
Salesmen	18
Clerk	1
5687 Stenographers	2
Statistical:	
Statisticians	4
Assistant Statisticians	8
Clerks	7
Stenographers and Typists	7
Total	51

5688

Exhibit 99

ORGANIZATION OF OPERATING SUBSIDIARIES OF AMERICAN GAS

5689

A.

This exhibit contains a description of the organization of the operating subsidiaries of American Gas and of the organization of the present American Gas, resulting from the merger of the original American Gas Company and the Appalachian Securities Corporation, as stated in Article XVI of the stipulation.

B. *The Ohio Power Company.*

5690

At the time of the organization of the original American Gas Company in 1906, as described in article XVI of the stipulation, American Gas acquired from Electric Company of America a majority of the voting securities of Canton Light, Heat and Power Co. In 1907, American Gas organized Canton Electric Company by merger of Canton Light, Heat and Power Co., with two other local companies. At the organization of Canton Electric Company, American Gas acquired all of the shares of its outstanding common stock, representing a majority of the outstanding voting securities of that company, and since that date has retained such stock ownership. Subsequent to the date of organization of Canton Electric Company, American Gas acquired the securities of various electric companies operating in Ohio, and the properties of such companies were transferred

5691

5692 to Canton Electric Company in exchange for securities of that company or by merger. In 1916 the name of Canton Electric Company was changed to Central Power Company and in 1919 to The Ohio Power Company. Voting preferred stock of the company was retired in 1925, since which time American Gas has owned all the voting stock of the company.

C. *Atlantic City Electric Company.*

5693 American Gas organized Atlantic City Electric Company in 1907 and caused to be transferred to it the properties of electric utility companies operating in New Jersey whose securities had been acquired by American Gas upon its organization. In exchange for such securities or properties, American Gas received all of the common stock of Atlantic City Electric Company, representing a majority of the outstanding voting securities of that company, and since that date has retained such stock. The voting preferred stock has since been retired, American Gas now owning all voting securities of the company. Subsequent

5694 to the organization of Atlantic City Electric Company, it, from time to time, acquired other electric properties and securities of electric companies located in New Jersey, it having made important acquisitions of such properties in 1924 and 1927.

D. *Wheeling Electric Company.*

At the time of its organization, the former American Gas acquired from Electric Company of

America a majority of the voting securities of Wheeling Electrical Company (predecessor of the present Wheeling Electric Company) operating electric utility properties in and around Wheeling, West Virginia. In 1911, American Gas caused the transfer of all the assets of two other electric utility companies, a majority of whose voting securities were at that time owned by American Gas, to Wheeling Electrical Company, in exchange for stock of that company, whereupon Wheeling Electrical Company changed its name to the present Wheeling Electric Company. 5695

E. *The Scranton Electric Company.* 5696

In 1907 American Gas organized the former Scranton Electric Company, predecessor of the present The Scranton Electric Company, and transferred to that company properties and securities, at that time largely owned by American Gas Company, of electric companies in and about Scranton, Pennsylvania, receiving in exchange therefor all of the common stock, representing a majority of the voting securities of Scranton Electric Company. Since 1907 American Gas has continuously retained such stock ownership and voting power. Since that time Scranton Electric Company has purchased from American Gas and from non-affiliated interests, in exchange for cash and its securities, various properties and securities of electric companies located in Pennsylvania. In 1928 the present The Scranton Electric Company was organized to consolidate the properties of the old Scranton Electric Company with a number of other electric companies in Pennsylvania, the common stock of which was 5697

held either by the old Scranton Electric Company or
5698 American Gas. Voting preferred stock of the old company was then retired, since which time American Gas has owned all voting securities of the company.

F. *Indiana General Service Company.*

At organization in 1906 American Gas acquired substantially all of the voting securities of two electric utility companies operating in Indiana. Prior to 1913, it acquired properties of several additional companies by purchases for cash or in ex-
5699 change for its securities. In 1913 it organized the Indiana General Service Company and caused the properties of these companies to be transferred to it in exchange for all of the common stock, representing all of the outstanding voting securities of Indiana General Service Company. Since that date American Gas has continuously retained such stock ownership and voting power.

G. *Indiana & Michigan Electric Company.*

In 1922 American Gas acquired all of the common stock of the former Indiana and Michigan Electric Company which operated electric properties located
5700 in Indiana and Michigan. In 1925 American Gas organized Twin Branch Power Company which built a steam power plant in Indiana. Subsequently, in the same year, American Gas consolidated these two companies into the present Indiana & Michigan Electric Company, all of the common stock, representing all of the outstanding voting securities, of which corporation has con-

tinuously been held by American Gas. Since the date of its organization, Indiana & Michigan Electric Company has acquired additional electric properties located in Indiana and Michigan. 5701

H. *Appalachian Electric Power Company and Kentucky and West Virginia Power Company.*

Prior to 1925, American Gas acquired, in exchange for its own securities and cash, the securities of a number of electric companies operating in Virginia, West Virginia and Kentucky, including those of Kentucky and West Virginia Power Company (acquired in 1922). Appalachian Securities Corporation had been formed to acquire control of Appalachian Power Co. and Virginian Power Co. In 1925, American Gas merged with Appalachian Securities Corporation to form the present American Gas. In 1926 American Gas organized Appalachian Electric Power Company and caused to be transferred to it all electric properties or securities which had formerly been held by Appalachian Securities Corporation and also certain securities and properties of other electric utility companies operating in Virginia, West Virginia and Kentucky (including those of Kentucky and West Virginia Power Company), which had formerly been owned or controlled by the old American Gas Company. As consideration for these transfers, American Gas received all of the outstanding common stock and a majority of the preferred stock of the new corporation. A portion of the preferred stock was sold to the public by American Gas from time to time thereafter, the common stock being retained by it. 5702 5703

5704

5705

Exhibit 100

STOCK VOTED AT ANNUAL MEETINGS
AMERICAN GAS

(opposite page)

5706

Exhibit 100

STOCK VOTED AT ANNUAL MEETINGS

AMERICAN GAS

Dates of Stockholders' Meetings	1931	1932	1933	1934	1935	1936
Total Outstanding Votes	4,260,706	4,411,898	4,572,284	4,741,910	4,830,853	4,833,232
Total Shares Voted at Meeting	3,252,652	3,234,243	3,179,558	3,024,639	3,342,514	3,026,734
Shares Voted by Proxies Nominated by the Management						
(a) Total	3,105,740	3,140,538	3,109,145	2,971,426	3,265,394	2,913,570
(b) Bond and Share	736,652	767,141	798,133	830,378	846,985	846,985
(c) Other Persons	2,369,088	2,373,397	2,311,012	2,141,048	2,418,409	2,066,585
Shares Represented by Proxies Other Than the Management	—	—	3,263	—	73,329	61,697
Shares Voted in Person	146,912	93,705	67,150	53,213	3,791	51,467

5710

Exhibit 101

5711

AMERICAN GAS OFFICERS AND DIRECTORS

SCHEDULE A—OFFICERS AND DIRECTORS OF AMERICAN GAS AND ITS SUBSIDIARIES AS OF DECEMBER 2, 1935.

(opposite page)

5712

Exhibit 101

SCHEDULE A—OFFICERS AND DIRECTORS OF AMERICAN GAS AND ITS SUBSIDIARIES AS OF DECEMBER 2, 1935

Name	American Gas and Electric Co.	Wheeling Elec. Co.	Indiana & Michigan Elec. Co.	Ohio Power Co. (The)	Indiana General Service Co.	Appalachian Electric Power Co.	Kingsport Utilities, Inc.	Ky. and W. Va. Power Co., Inc.	Scranton Electric Co. (The)	Atlantic City Electric Co.
Anderson, H. D.	AS-AT					AS-AT		D		D
Argabrite, N. M.	VP					D-VP	D-VP	D-VP		
Armstrong, H.				AS						
Ball, Frank B.	D-VP-S	D-S-T	D-S-T	D-S-T	D-S-T	D-S-T	D-S-T	D-S-T	D-S-T	D-S-T
Breed, George	D									
Breed, Richard			D							
Burchill, J. M.	VP									
Burtner, O. S.					D-OM					
Calvert, Charles B.			D-AS							
Campbell, Duncan T.									D-VP	
Claytor, Graham						D-VP	D-VP	D-VP		
Cresswell, Robert	D									
Drager, F. W.	T-AS	AS-AT	AS-AT	D-AS-AT	AS-AT	D-AS-AT	D-AS-AT	D-AS-AT	AS-AT	D-AS-AT
Drischel, O. M.					D-VP-GM					
Ely, Van Horn	D									
English, Thomas F.			D-VP							
Farrar, Frederick A.	D									
Garden, John B.		D-VP								
Gardner, H. L.						AS				
Goebel, A. C.										
Groesbeck, C. E.	D-Ch. Bd.									AS

Exhibit 101

5716

OFFICERS AND DIRECTORS OF AMERICAN GAS AND ITS SUBSIDIARIES

5717 **(Continued)**

SCHEDULE A (Continued)

(opposite page)

5718

Exhibit 101

OFFICERS AND DIRECTORS OF
AMERICAN GAS AND ITS SUBSIDIARIES
Continued

Name	American Gas and Electric Co.	Wheeling Elec. Co.	Indiana & Michigan Elec. Co.	Ohio Power Co. (The)	Indiana General Service Co.	Appalachian Electric Power Co.	Kingsport Utilities, Inc.	Ky. and W. Va. Power Co., Inc.	Scranton Electric Co. (The)	Atlantic City Electric Co.
Halbig, John P.	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
Haymond, Walter O.					D					
Hill, J. B.		D-VP	VP	D-VP	VP				D-VP	D-VP
Jeffers, W. J.	D-AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT
Lewis, E. A.										D-VP-GM
Maurer, Edward H.	AT	VP	VP	VP	VP	VP	D-VP	D-VP	VP	D-VP
McMillan, J. F.	AS-AT	AS-AT	AS-AT	AS-AT	AS-AT	D-AS-AT	D-AS-AT	D-AS-AT	AS-AT	D-AS-AT
Millikan, M. F.	D-VP	D-VP-C	D-VP-C	D-VP-C	D-VP-C	D-VP-C	D-VP-C	D-VP-C	D-VP-C	D-VP-C
Osterhout, J. G.									D-AS	
Sawyer, H. M.	VP	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.	VP-C. Agt.
Sporn, Philip	VP									
Stroud, Morris	D									
Tidd, George N.	D-P	D-P	D-P	D-P	D-P	D-P	D-P	D-P	D-P	D-P
Tilney, A. A.	D									
Van de Voort, J. P.	VP									
Walling, C. L.			D		D		D			
Wehrhane, Henry H.	D									
Williams, Harrison	D									

D—Director
P—President
S—Secretary
T—Treasurer
C—Counsel
C. Agt.—Contract Agent
AS—Asst. Secretary
AT—Asst. Treasurer
VP—Vice-president
GM—General Manager
OM—Office Manager

Exhibit 101

5722

5723 SCHEDULE B—STATISTICAL SUMMARY OF POSITIONS HELD BY DIRECTORS OF AMERICAN GAS AND ITS SUBSIDIARIES.

(opposite page)

5724

Exhibit 101

Schedule B

STATISTICAL SUMMARY OF THE DIRECTORS OF AMERICAN GAS AND ITS SUBSIDIARIES FOR DECEMBER 31, 1928 AND 1934 AND DECEMBER 2, 1935

Name of Company Whose Directors are Classified	Total Number of Directors			Number of Directors of each Company listed in Column 1 Who are also:								
				3			4			5#		
				Officers or Directors of American Gas			Officers or Directors of an Associate Utility Company but who are Not of American Gas			Counted in Column 3 or 4 and are Officers as well as Directors of Company referred to in Column 1		
1	1928	1934	12/2/35	1928	1934	12/2/35	1928	1934	12/2/35	1928	1934	12/2/35
American Gas and Electric Company	15	15	13	15	15	13	**	**	**	3	4	4
Wheeling Electric Company	5	5	5	4	3	3	0	1	1	3	4	4
Indiana & Michigan Electric Company	7	7	7	3	3	3	1	1	1	2	3	3
The Ohio Power Company	11	5	5	5	4	4	0	1	1	4	5	5
Indiana General Service Company	7	7	7	3	3	3	1	1	1	3	3	3
Appalachian Electric Power Company	7	7	7	6	6	6	0	0	1	4	7	7
Kingsport Utilities, Inc.	9	9	9	7	7	7	1	2	2	6	8	8
Kentucky and West Virginia Power Company, Inc.	9	9	9	8	8	8	0	1	1	7	8	8
Southern Ohio Public Service Company	7	7	7	0	5	5	0	0	0	0	3	3
The Scranton Electric Company	7	7	6	4	3	3	0	1	1	3	4	4
Atlantic City Electric Company	9	9	9	8	7	7	0	1	1	7	7	7

* Also directors of Bond and Share.

1928 includes only officers. 1934 and 12/2/35 include also certain employees.

** Directors of both American Gas and Bond and Share: Dec. 31, 1928, 3; Dec. 31, 1934, 3; Dec, 2, 1935, 2.

Exhibit 102

5728 **AMERICAN GAS PURCHASE CONTRACTS**

A. FIRM ORDERS
As described in section 110, paragraph 3 of the stipulation.

Issued by AMERICAN GAS AND ELECTRIC CO.

30 CHURCH STREET, NEW YORK
or by The Company named below at the address given.

5629 Order No. G-23086 Req. No. AGE-3644
FN
Dated NY Dec. 18, 1935

Graybar Electric Company,
180 Varick Street,
New York, New York.

Att: Mr. C. R. Wharton

5730 *Please enter our order for delivery of material as noted below, subject to conditions on back hereof, noting on your bill our order and requisition number.*

No Invoices will be paid unless our Complete Order Number appears thereon. All shipments must bear our complete Order Number plainly marked. Shipper's Order Number is of no value to us for identification of shipments.

Exhibit 102

MATERIAL LIST DISCOUNT

5731

Our requirements of Friction Tape
for period ending March 31, 1936.
Tape to be ASTM Specs. 82-½ ft.
rolls without cartons—foil wrapped. lb. 22-½ Net

FOB Destination on shipments of 100 lbs. or more.
FOB Warehouse on lots of less than 100 lbs.

NOTE:—No increase in the total purchase price specified in this order will be accepted by the purchaser, except for taxes as specified by the Revenue Act of 1932, or modifications thereof, unless specific written authority for such increase be given vendor by purchaser. The amount of such increase due to taxes should be specifically set forth on your invoices.

5732

DELIVERY OF ABOVE MATERIAL REQUIRED .....
NOTIFY CONSIGNEE AT ONCE IF YOU CANNOT COMPLY.
Three copies of invoices are required.
Bills must be made in the name of

5733

Ship via .....
Shipping and Billing Instructions to follow

Address to which bills must be sent — To

Mail copy of duplicate B/L or other transportation receipts to above address.
Purchasing Agent

Exhibit 102

Issued by AMERICAN GAS AND ELECTRIC CO.
5734 30 CHURCH STREET, NEW YORK

or by The Company named below at the address given

Order No. G-6699 Req. No. AGE-1452
Dated NY April 13, 1936.

Anaconda Wire and Cable Company,
25 Broadway,
New York City.

5735 *Please enter our order for delivery of material as noted below, subject to conditions on back hereof, noting on your bill our order and requisition number.*

No Invoices will be paid unless our Complete Order Number appears thereon. All shipments must bear our complete Order Number plainly marked. Shipper's Order Number is of no value to us for identification of shipments.

5736 QUANTITY	MATERIAL	LIST	DISCOUNT
100,000Lbs.	Bare and/or Weatherproof Wire and Cable		
	Bare—Base...Cwt	12.375	Net
	Weatherproof " "	15.125	"

F. O. B. Mill
Extras as per Sheet,
March 19, 1936.

Exhibit 102

COPY

5737

NOTE:—No increase in the total purchase price specified in this order will be accepted by the purchaser, except for taxes as specified by the Revenue Act of 1932, or modifications thereof, unless specific written authority for such increase be given vendor by purchaser. The amount of such increase due to taxes should be specifically set forth on your invoices.

5738

DELIVERY OF ABOVE MATERIAL REQUIRED .....
NOTIFY CONSIGNEE AT ONCE IF YOU CANNOT COMPLY.

Three copies of invoices are required.
Bills must be made in the name of

Ship via .....
Shipping and Billing Instructions
to Follow

Address to which bills must be sent — To

5739

Mail copy of duplicate B/L or other transportation receipts to above address.
Purchasing Agent.

Exhibit 102

ANACONDA WIRE AND CABLE COMPANY
5740 25 Broadway
New York, N. Y.

American Gas and Electric Co.,
30 Church Street,
New York, New York.

Date April 14, 1936.
Our Order No. 794

Gentlemen:

We thank you for your Order No. G-6699, dated April 13, 1936, reading as follows:

5741 100,000 lbs. Anaconda Bare and/or Weatherproof Copper Wire and Cable

Bare Base Price	$ .12375 Lb.
Weatherproof Base Price	$ .15125 Lb.

Extras and advances as per Price List BW-N-16 of 3-9-36, and Supplement of 11-24-34.

5742 Prices on this sheet apply only to such releases for immediate shipment as are received within 90 days from date of order or contract. On any balance not released for immediate shipment at the end of 90 day period, Buyer shall pay Seller $.12375 per pound for any unreleased portion—net cash 10 days, which amount shall be credited in proportion against invoices as shipments are made.

Ship to Via
Package Marks

Shipment (Definite date will be
(furnished by supplementary
(acknowledgment.

Terms: ½ of 1%—10 days,
Net—30 days

Exhibit 102

The above is an exact copy of your order as entered in our factory, if incorrect in any particular please advise at once. 5743

All sales are contingent upon strikes, accidents and other delays unavoidable or beyond our control.

All materials made by us are inspected before shipment, and should any of same prove defective due to faults in our manufacture, they will be replaced by us, but no contingent claim or expense will be allowed; the measure of the damages to be the value of the defective materials.

Reels, spools and cases are not included in the price of wire or cable, but are charged separately. 5744
Reels, spools and cases returned to us freight charges collect, in lots of 100 pounds or more, in good condition, reasonable wear and tear excepted, within a period of twelve months, shall be credited to the purchaser at the prices charged. If returned after a period of twelve months, the amount credited shall be charged price less 5% per month for each month in excess of the twelve-month period. Consign all shipments to Anaconda Wire and Cable Company, at mill from which shipment originated, sending bill of lading and invoice of shipment to us. 5745

No changes will be made in this order, unless reduced to writing and agreed to by both parties.

ANACONDA WIRE AND CABLE COMPANY

Natl. Comm. Cont.
1/15/36

B. VOLUME PURCHASE CONTRACTS
As described in section 110, paragraph 1 and 2 of the stipulation.

Exhibit 102

THE PURE OIL COMPANY
5746 COMMERCIAL CONSUMER CONTRACT
TANK WAGON

THIS CONTRACT made and entered into this 23rd day of January, 1936, by and between THE PURE OIL COMPANY, an Ohio corporation, hereinafter called the SELLER, and AMERICAN GAS & ELECTRIC CO., Inc. Street and Number—30 Church St. City—New York, State—New York, hereinafter called BUYER,

5747 WITNESSETH: Seller agrees to sell and deliver by tank trucks, and Buyer agrees to purchase and receive at his place or places of business at—(see annexed rider) not less than—Requirements gallons and not more than—600,000 gallons of motor gasoline over a period of one year from—February 1st, 193—6, deliveries to be made as Buyer may direct, but Seller shall not be obligated to sell and deliver more than one-eighth of the maximum quantity in any one calendar month.

5748 Gasoline to be delivered under this contract shall be of the same quality as Seller markets under the brand name Purol-Pep, and Buyer shall pay for said gasoline according to the State in which delivery is made, as set forth in the "Price Schedule" attached hereto and made a part hereof; provided, however, that on deliveries of less than 100 gallons at one time, the price shall be Seller's retail service station price in place and on date of delivery as posted at its plant from which delivery is made.

At the option of Buyer, Seller will sell and de-

liver to Buyer hereunder its Super Solvenized Purol-Pep gasoline, or gasoline of equivalent quality when sold under another brand name, and buyer shall pay therefor one cent (1c) per gallon more than the applicable price as set forth in the attached "Price Schedule". 5749

Seller may make deliveries hereunder through its affiliated and subsidiary companies where Buyer's receiving points are located in their territories, and gasoline so delivered shall be billed by, and Buyer shall remit therefor to the affiliated or subsidiary company making delivery.

Terms shall be as directed by Seller's Credit Department from time to time. If Buyer fails to fulfill the terms of payment, or any other terms of this contract, or if Buyer's financial responsibility shall become impaired in the judgment of Seller, Seller may, without prejudice to other lawful remedy, defer shipments until payment be made or terms of contract complied with, may demand cash payments, and/or may cancel this contract, but by so doing does not relinquish any of its legal rights. 5750

The Seller agrees to fill all orders with reasonable promptness, but shall not be held responsible for losses resulting from delays in filling orders or making delivery by reason of partial or total interruption of transportation, fires, strikes, differences with workmen, interference of civil or military authority, or any cause beyond its control. 5751

Existing taxes, or any additional taxes levied by any governmental authority on the sale and/or manufacture of products herein named shall be for the account of the Buyer, and if Seller shall be

required to pay any such tax, the amount thereof
5752 shall be added to the prices designated above.

This undertaking to supply material as herein provided is expressly made subject to any federal, state, or other governmental laws and regulations which may be or hereafter become effective, which will restrict, limit or control Seller in the supply and price of materials hereunder.

This written contract contains all the terms of the agreement between the parties and any oral or written conditions or understandings, additional to or at varience with the foregoing are hereby
5753 waived and released. This contract supersedes and cancels all prior agreements between the parties respecting the purchase and sale of gasoline for delivery at the points of delivery herein stated.

THE PURE OIL COMPANY, SELLER
By J. C. EVANS,
WITNESS WILMA D. JAEGER

AMERICAN GAS & ELECTRIC CO., Inc.
BUYER

BY H. C. EDDY Pur. Agt.
5754 WITNESS THO J. QUIGLEY

PRICE SCHEDULE

For deliveries in the States of New Jersey, Pennsylvania, Virginia, West Virginia, South Carolina, Louisiana, Arkansas and Tennessee the price of gasoline hereunder shall be Seller's commercial tank car price in effect at time and place of delivery as posted at Seller's plant from which de-

livery is made, plus one half cents (½c) per gallon.

For deliveries in the States of Indiana, Michigan, 5755
the price of gasoline hereunder shall be Seller's tank wagon price in effect at time and place of delivery as posted at Seller's plant from which delivery is made, less one & one half cents (1½c) per gallon.

For deliveries in the State of Ohio the price of gasoline hereunder shall be Seller's tank wagon price in effect at time and place of delivery as posted at Seller's plant from which delivery is made, less two and one half cents (2½c) per gallon.

FORM 187

5756

THE GRASSELLI CHEMICAL COMPANY
(Incorporated)

New York, N. Y.—THE SELLER

AMERICAN GAS AND ELECTRIC COMPANY,

New York City.—THE BUYER

The Buyer agrees to purchase from the Seller and the Seller agrees to sell to the 5757
Buyer upon the following terms and conditions:

Article

LIQUID CHLORINE

Quantity and Duration

Buyer's entire requirements but not to exceed 150,000 pounds except at Seller's option for ship-

ment to the Buyer's plants at Carney's Point, N. J.
5758 and Philo, Ohio, during the period from January 1st, 1936 to December 31st, 1936.

It is mutually agreed that the material covered by this contract is for consumption only (and not for resale) at Buyer's plants at Carney's Point, N. J. and Philo, Ohio.

Two dollars and fifty-five cents ($2.55) per 100 pounds for Liquid Chlorine in multiple unit tank cars f.o.b. Niagara Falls, freight equalized with Syracuse, N. Y. for shipment to Carney's Point, N. J. and f.o.b. Niagara Falls, N. Y., freight equal-
5759 ized with Painesville, Ohio, or Belle, W. Va., for shipment to Philo, O.

Prices

SEE CLAUSE UNDER "CONDITION"

Multiple Unit Tank cars—15 one-ton cylinders to the car, Cylinders to be charged at $150.00 each.

Packages

5760 Packages to be charged extra and paid for, but credited same as charged when returned and received in good order, Freight Prepaid, F. O. B. Niagara Falls, N. Y., freight equalized with Syracuse, N. Y., when returned in L/C/L lots, Carload returns move as a tank car and are free of freight.

Terms

30 days net, less 1% for cash if paid within 10 days from date of invoice on commodity only.

Exhibit 102

If the Buyer does not pay the Seller's invoices when due, the Seller shall have the option to refuse 5761
to make further shipments under this contract. Failure on the part of the Seller to exercise this option in case one or more invoices are not paid when due, shall not affect the Seller's right to subsequently exercise this option.

Should the Seller have any doubt at any time as to the Buyer's financial responsibility, the Seller may decline to make any shipments, except on receipt of cash, satisfactory security, or sufficient credit information to satisfy the Seller of the Buyer's responsibility. 5762

Shipments

In approximately equal intervals throughout the contract period, in multiple unit tank cars, on formal order from the Buyer.

Conditions

The prices incorporated in this contract are to apply on shipments up to March 31, 1936 and it is hereby mutually agreed that the prices herein 5763
quoted are subject to adjustment during the last fifteen days of March, June and September 1936 covering shipments during the next succeeding quarterly period. In the absence of written notice from the Seller to the Buyer during the last fifteen days of March, June and September 1936 regarding any contemplated price adjustments for the ensuing quarter, it is understood that the prices then in effect shall continue in effect for the next

quarter. Failure of Buyer and Seller to agree on
5764 any proposed change in price releases the Seller of obligation to deliver, and allows the Buyer to purchase elsewhere the required quantities for consumption during the quarter in question.

In lieu of deposit on each cylinder as mentioned in the package clause, the Buyer agrees to protect the Seller against damage or loss of cylinders while in Buyer's possession to extent of $150.00 per cylinder.

The above price is based on an estimate consumption of two carloads during the contract
5765 period, and it is understood and agreed that in the event the Buyer consumes three carloads or more during the contract period the third car will be invoiced at $2.30 per cwt., which price will also be made retroactive to the earlier delivery made against this contract.

If the material covered by this contract is shipped in tank cars furnished by the Seller, the Buyer agrees that such tank cars will be unloaded within 48 hours (Sundays and holidays excepted) after receipt thereof.

Seller's weights to govern.

5766 In case of failure of Buyer to furnish shipping instructions for any installment or quota, the Seller may consider such quantity as free from any obligation of subsequent shipment.

Any taxes, excises, or other charges which the Seller may be required to pay to any Government (National, State or Municipal), upon the sale, production or transportation of the commodities sold hereunder during the term of this contract, shall be added to the price specified herein.

Exhibit 102

The Seller guarantees that the merchandise is produced and sold free of valid infringement claims, but does not guarantee that the use thereof by the Buyer in conjunction with other materials will not infringe a patent. 5767

There are no understandings or agreements relative to this contract that are not fully expressed herein and no Agent or Salesman has any authority to obligate Seller by any terms, stipulations or conditions not herein expressed. This agreement may be altered only by the written consent of both parties hereto.

It is understood that the Seller does not manufacture the article covered by this contract and if the Seller is unable to obtain it from the Seller's regular source of supply, it is agreed that the contract shall be suspended until the delivery of the article from such source of supply shall be resumed. 5768

Wars, fires, accidents, strikes, inability to secure crude materials necessary for the manufacture of the articles herein mentioned, or causes beyond the control of either the Seller or the Buyer, or on transportation lines, rendering the Buyer unable to receive or the Seller to ship, may make this contract inoperative during the necessary repairs, rebuilding or continuance of difficulties. 5769

This contract is not transferable or assignable by the Buyer, but shall be binding on and inure to the benefit of the parties hereto and their respective successors.

Exhibit 102

THIS CONTRACT SIGNED IN DUPLICATE

5770

ACCEPTED BY

AMERICAN GAS AND
ELECTRIC COMPANY
H. C. EDDY Purch. Agt.

Jan. 8, 1936.

THE GRASSELLI CHEMICAL COMPANY
(Incorporated)

5771

B. F. SHEEHAN, JR.,

1/8/36 19

C. SPECIAL CONTRACTS
As described in section 110, paragraph B of the stipulation.

Westinghouse Elec. & Mfg. Co.
Reference NY—71399

WESTINGHOUSE

5772

ELECTRIC & MANUFACTURING COMPANY
General Offices East Pittsburgh, Pa.

April 8, 1935

To Kanawha Valley Power Company

(Hereinafter called the Purchaser)

P. O. Address—P. O. Box 2091, Roanoke, Va.

Shipping Address—Later

Exhibit 102

Westinghouse Electric & Manufacturing Company (hereinafter called the Company) proposes to deliver f. o. b. point of shipment the apparatus described herein: 5773

Two, (2) Sets of automatic switching equipment in accordance with Specification 71958—A included herein, one set each for the Marmet and London Stations.

WESTINGHOUSE

ELECTRIC & MANUFACTURING COMPANY 5774

For—Kanawha Valley Power Company

Date—3/25/35

Location—Marmet, West Virginia

Neg. No.—14480

Station—Sub Station Marmet Development

Spec. No. 71958—A 5775

This specification covers automatic switching equipment for the automatic and remote control of three 6000 Kva., 4150 volts, 3 phase, 60 cycles, water wheel generators with motor driven 125 volt exciters in each of two generating stations.

1. The Company warrants that the apparatus to be delivered hereunder shall be of the kind and quality described in the specifications and no other

warranty, except of title, shall be implied. The
5776 conditions of any tests shall be mutually agreed upon and the Company shall be notified of and may be represented at all tests that may be made. If any failure to comply with the specifications appears within one year from the date of shipment the Purchaser shall notify the Company thereof immediately and the Company shall thereupon correct the defect, or defects, by repair, or by replacement f.o.b. factory of the defective part or parts. But if the apparatus is installed or its installation supervised by the Company, said one year
5777 shall run from the completion of installation provided same is not unreasonably delayed by the Purchaser. The liability of the Company (except as to title) arising out of the supplying of said apparatus, or its use, whether on warranties or otherwise, shall not in any case exceed the cost of correcting defects in the apparatus and, upon the expiration of said one year all such liability shall terminate.

2. The Company shall defend any suits or proceedings brought against the Purchaser so far as
5778 based on a claim that any apparatus, or any part thereof, furnished under this contract constitutes an infringement of any patent of the United States, if notified promptly in writing and given authority, information and assistance (at the Company's expense) for the defense of same, and the Company shall pay all damages and costs awarded therein against the Purchaser. In case the said apparatus or any part thereof is in such suit held to constitute

infringement and the use of said apparatus or part is enjoined, the Company shall, at its own expense, 5779
either: procure for the Purchaser the right to continue using said apparatus or parts; or, replace same with non-infringing apparatus; or modify it so it becomes non-infringing; or remove said apparatus and refund the purchase price and the transportation and installation costs thereof. The foregoing states the entire liability of the Company with respect to patent infringement hereunder.

3. The title to the apparatus herein specified, 5780
and any replacements thereof or substitutions therefor, shall not pass from the Company until all payments due hereunder (including deferred payments and payments of notes and renewals thereof if any) shall have been fully made in cash, and the apparatus specified shall remain personal property whatever may be the mode of its attachment to the realty or other property, until fully paid for in cash, and the Purchaser agrees to perform all acts which may be necessary to perfect and assure retention of title to the said apparatus in the Company. The Purchaser shall assume all risk of loss 5781
after the apparatus is delivered as specified herein. If default is made in any of the payments, in the manner and form and at the time herein specified, the Company shall be entitled to the immediate possession of said apparatus and shall be free to enter the premises where such apparatus may be located and remove the same as its property, without prejudice to any further damages which the Company may suffer by reason of the Purchaser's

refusal or failure to surrender the apparatus when
5782 so required. In case notes or trade acceptances are accepted, they shall be mere evidence of indebtedness and not payment and if any one is not paid when due, all outstanding notes shall, at the option of the holder, become immediately due and payable; all collection and exchange charges and all taxes shall be payable by the Purchaser.

4. Price—Thirty Nine Thousand Three Hundred and .....00/100 Dollars, ($39,300.00)

5783 Payable in United States currency.

An extra charge will be made for special containers (such as oil barrels, reels, etc.), but refund will be made if returned in good condition to the factory, or other point designated by the Company, within four (4) months from date of original shipment, charges prepaid.

5. TERMS OF PAYMENT:

50 per cent upon presentation of Bill of
5784 Lading.
40 per cent 30 days from date of Bill of Lading.
10 per cent 60 days from date of Bill of Lading.

The Company reserves the right to ship to its order and make collection by sight draft with bill of lading attached.

If, in the judgment of the Company, the financial

condition of the Purchaser, at the time apparatus is ready for shipment does not justify the terms 5785
of payment specified above, the Company has the right to require full payment in cash before making shipment.

Pro rata payments shall become due as shipments are made. If shipments are delayed by the Purchaser, payments shall become due from date when the Company is prepared to make shipment. If manufacture is delayed by the Purchaser, payment shall be made based on the contract price and per cent of completion. Apparatus held for the 5886
Purchaser shall be at the risk and expense of the Purchaser.

6. Shipment of the apparatus described herein will be made as follows:

One Set—August 15, 1935
One Set—September 3, 1935

The above shipping dates are approximate and include 0 days for the Purchaser to furnish complete information to the Company. In case of de- 5787
lay by the Purchaser in furnishing complete information, or returning accepted contract to the Company, the time of shipment shall be reasonably extended, based on the period of Purchaser's delay and conditions at the factory of the Company.

7. The Company shall not be liable for loss, damage, detention or delay resulting from causes beyond its reasonable control or caused by fire,

Exhibit 102

strike, civil or military authority, insurrection or
5788 riot, embargoes, car shortages, wrecks or delays in transportation. Receipt of the apparatus by the Purchaser upon its delivery shall constitute a waiver of all claims for delay.

8. The Purchaser shall not assign this contract or any rights hereunder without written consent of the Company. Previous agreements and understandings are superseded by this proposal. No modification hereof shall be binding unless in writing duly accepted by the Purchaser and approved
5789 by a duly authorized representative of the Company. The Company shall not be liable for consequential damages.

9. The foregoing proposal must be accepted by the Purchaser and delivered to the Company within fifteen (15) days from its date and must be approved in writing either by an executive officer of the Company or by one of its duly authorized managers, in order to make it binding upon the Company.

Respectfully yours,

5790

WESTINGHOUSE ELECTRIC &
MANUFACTURING COMPANY
By Chas. M. Schaefer

Exhibit 102

ACCEPTANCE

5791

The foregoing proposal is hereby accepted at the prices and upon the terms and conditions named therein.

Dated—May 6, 1935

Witness of Secretary
H. C. Eddy
Purchasing Agent

Kanawha Valley Power Co.
(Purchaser signs here) 5792
N. M. Argabrite
Vice President
(Title)

WESTINGHOUSE ELECTRIC &
MANUFACTURING COMPANY
By H. F. Boe
Asst. Mgr. Eastern District

Approved: At—New York—May 15 1935
(Insert Place)
Witness: M. Blackwell 5793

5794

Exhibit 103

5795 **AMERICAN GAS AND SUBSIDIARIES**

GROSS PURCHASES

SCHEDULE A

(opposite page)

5796

Exhibit 103

SCHEDULE A

AMERICAN GAS AND SUBSIDIARIES

GROSS PURCHASES

	(1) New York Office Orders	(2) Contracts for Special Equipment etc.	(3) Local Orders	(4) Fuel Used (Ordered Locally but some Contracts Signed in New York)	(5) Total
1929	$10,066,716	$6,483,562	$3,246,904	$6,723,527	$26,520,711
1930	6,412,195	3,244,830	2,961,591	6,002,900	18,621,517
1931	3,942,051	1,490,150	2,442,826	5,504,934	13,379,962
1932	2,248,943	900,472	1,077,150	3,963,334	8,189,901
1933	2,783,811	795,853	926,931	4,106,995	8,613,592
1934	3,568,729	2,927,287	1,212,476	5,037,464	12,745,956

(1) All purchases on orders written in New York, covering many kinds of materials and supplies, including orders individually negotiated and not subject to any volume contract as described in paragraphs 110-A, (3) of the stipulation and including some orders specifying deliveries under volume contracts described in paragraphs 110-A, (1) and (2).

(2) Contracts for special materials, equipment, apparatus, etc., as described in paragraph 110-B of the stipulation.

(3) All purchases made by local offices of the operating companies, including some orders specifying deliveries under volume contracts mentioned in paragraphs 110-A, (1) and (2) of the stipulation and including the class of materials listed in schedule C in this Exhibit 103.

(4) Represents value of fuel *used*—not of fuel *purchased,* which latter figure is not available. (The two should not be substantially different.) Some fuel contracts are signed in New York but the bulk of the fuel purchases are made locally.

Exhibit 103 (continued)

5800

5801 BLANKET REQUIREMENT CONTRACTS

SCHEDULE B

(opposite page)

5802

SCHEDULE B

BLANKET REQUIREMENT CONTRACTS

Schedule of effective contracts for "blanket" requirements made by American Gas as described in paragraphs 110-A, (1) and (2) of the stipulation. Except where noted, the contracts provide only discounts at the time of purchase as described in paragraph 110-A, (1).

Name of Vendor	*Class of Materials or Equipment*
Linde Air Products Company	Acetylene and Oxygen
General Chemical Company	Aluminum Sulphate
National Carbon Company	Anti-Freeze
Firestone Tire & Rubber Company	"
General Motors Company [1]	Automobiles and Trucks
Ford Motor Company [1]	"
Fargo Motor Company [1]	"
Packard Motor Car Company [1]	"
Hudson Motor Car Company [1]	"
White Motor Company [1]	"
Carbolineum Wood Preserving Co.[1]	Carbolineum
Remington Rand Company	Carbon Paper and Filing Supplies
Mathieson Alkali Company	Caustic Soda
Bristol Company	Charts (for recording instruments)
Builders Iron Foundry	"
Esterline Angus Company	"
Foxboro Company	"
G.asselli Chemical Company	Chlorine
Graybar Electric Company	Crossarms and wood Crossarm Braces
Joslyn Company	"
Williams and Company	Welding Electrodes
Davis Emergency Equipment Co.	First Aid Equipment
E. D. Bullard Company	"
Mine Safety Supply Company	"
Pyrene Manufacturing Company	Fire Extinguishers and Fluid

Exhibit 103 (continued)

5806

5807

SCHEDULE B (*Continued*)

(opposite page)

5808

Exhibit 103

SCHEDULE B (*Continued*)

Name of Vendor	*Class of Materials or Equipment*
Standard Oil Company	Gasoline
Pure Oil Company	"
The Texas Company	"
Gulf Refining Company	"
Atlantic Refining Company	"
Elk Refining Company	"
Socony Vacuum Company	"
Standard Oil Company	Grease and Oils
Socony Vacuum Company	"
The Texas Company	"
Pure Oil Company	"
Keasbey and Mattison Company	Insulating Materials
General Electric Company	Incandescent Lamps
Rinek Cordage Company	Manila Rope
General Electric Company	Meters
Sangamo Electric Company	"
Duncan Electric Company	"
Garlock Packing Company	Packing
Anchor Packing Company	"
Crandall Packing Company	"
Mathieson Alkali Company	Soda Ash
Monsanto Chemical Company	Sodium Sulphite
Rockbestos Products Company	Switchboard Wire
Columbus-McKinnon Chain Co.	Tire Chains
General Tire and Rubber Co.	Tires
Goodyear Tire and Rubber Co.	"
United States Rubber Company	"
Goodrich Tire and Rubber Co.	"
Firestone Tire and Rubber Co.	"
Kuhlman Electric Company	Transformers
Moloney Electric Company	"
General Electric Company	"
Davey Tree Expert Company	Tree Trimming
General Electric Company	Miscellaneous Electrical Equip. in addition to meters and transformers.
Champion Company	Spark plugs
Pittsburg Plate Glass Co.	Paint brushes

[1] Contract provides both a discount at the time of purchase and a discount based upon value of purchases made during the contract period as described in paragraph 110-A, (2) of the stipulation.

Exhibit 103

SCHEDULE C

5812

Schedule of Classes of Materials and Supplies purchased locally, not including items which may have been ordered under "blanket" contracts listed in schedule B of this Exhibit.

Mechanical and electrical repairs.
Miscellaneous electric supplies.
Rubber gloves, clothing and protectors.
Electric range coils replacements.
Tools.

5813

Dry Batteries.
Automobile batteries replacements.
Rubber insulating tape not under contract.
Miscellaneous mechanical and steam supplies, such as valves, fittings and pipe in small quantities for repairs or emergency use.
Rubber covered wire in small quantities, not including weatherproof or bare wire and cables.
Automobile spark plugs.
Blue print paper.
Fire brick for emergency use.
Electrical merchandise for resale.

5814

Miscellaneous printing, exclusive of standard forms.
Miscellaneous office supplies and equipment.

Exhibit 104

AMERICAN GAS APPARATUS EXCHANGE

5815

Equipment interchanged among the associated companies for the years 1929 to 1935, inclusive.

Year	*Reuseable salvaged equipment*	*Standard Material and supplies stock items**
1929	$205,978	$20,000
1930	57,782	20,000
1931	60,156	20,000
1932	56,553	20,000
1933	101,547	20,000
1934	78,945	20,000
1935	39,381	20,000

5816

*Estimated

5817

Exhibit 105

AMERICAN GAS

5818

INSURANCE CONTRACTS

List of Insurance Placed by the New York Insurance Department of American Gas for operating companies. In most, if not all cases, insurance actually applies to, or is available to, all the operating companies in the group.[1]

Fire	Amount	$139,059,985
Tornado	Amount	57,573,050
Riot and Strike	Amount	10,315,800
Automobile Fire and Theft	Amount	725,955
Automobile Public Liability	Limits [2]	110,000/ 110,0
Steam Boiler	Limits varying from [3]	500,000/1,000,0
5819 Machinery	Limits varying from [3]	75,000/ 200,0
Excess Turbine	Limits varying from [3]	425,000/ 800,0
Plate Glass		Replacement of gl
Holdup	Limits	320,000
Safe or Vault Burglary	Limits	7,500
Compensation		Unlimited
Public Liability	Limits [2]	110,000/ 110,0
Contingent Liability	Limits [2]	110,000/ 110,0
Teams Liability	Limits [2]	110,000/ 110,0
Elevator Liability	Limits [2]	110,000/ 110,0
Fidelity Bond	Limits	200,000
Group Life		———
Group Disability		———

5820

[1] Some insurance is placed by the local executives of the operating companies. The principal items so placed are included in the following:

Fire	$11,299,175
Tornado	2,514,700

[2] The application of these limits is as follows:
$110,000 limit of liability for injury or damage to any one person;
$110,000 limit of liability for injury or damage in any one accident.

[3] These policies are general policies covering all the operating plants of all the companies and particular limits are fixed for individual plants dependent on the size. In one of the largest plants the limit is the larger amount named and in one of the smaller or relatively less important plants the limit is the smaller amount named.

Page Tightly Bound

Exhibit No. 106

BIBLIOGRAPHY OF INFORMATIONAL MATERIAL—AMERICAN GAS

5821

Schedules:

A. Material prepared by American Gas and sent to the operating companies.

B. Material procured from outside sources and sent by American Gas to the operating companies.

C. Material sent to American Gas by the operating companies.

5822

SCHEDULE A

Material Prepared by American Gas and Sent to the Operating Companies

Suggested procedure to be followed with respect to payment of bonus to employees who furnish leads resulting in sale of major appliances.

Letter outlining 1935 merchandising sales plans.

Letter giving information on how to answer questionnaire of Federal Power Commission.

5823

Information letter on results secured from revamping lighting in the Keystone Shoe Stores, Inc.

Information letter showing various uses for appliance truck poster service furnished by the American Gas.

Outline of dealer cooperative plan.

Exhibit 106

5824 Suggestions for conducting interesting employee group sales meetings and a playlet worked up for this purpose.

First six months' campaign plans for the sale of ranges and water heaters during 1935.

Distribution of American Gas subsidiaries' finance chart on basis of new low finance charge, 3% per annum.

Information distributed with respect to relief valves on water heaters.

5825 Information letter on schedule of truck posters for the year 1935.

Description and prices applying to new line of Rutenber Electric Company's ranges.

Distribution of street lighting advertisements, prepared at the request of certain subsidiary companies.

Information on applying new finance plan to purchase of replacement refrigerator units.

Information on new Water Heating Manual prepared by the Commercial Department.

5826 Letter advising that financed dealer sales of ranges and water heaters are covered by American Gas insurance policy.

Letter of suggested instructions covering the preparation of revised New Business Department's report showing activity during specific period.

Letter advising of special employee's price on ranges and water heaters by manufacturer.

Exhibit 106

Letter advising of reprinting of American Gas merchandise finance charge chart. 5827

Distribution and instructions governing use of American Gas Water Heating Manual.

Special range and water heater campaign plans.

Letter to organization showing procedure to follow with respect to changing switches on "Hotpoint" Ranges.

Information with respect to air conditioning.

Information on tabulation of kilowatt-hour use per customer and respective standings of subsidiary companies. 5828

Information on changing models of Westinghouse Ranges.

Distribution of special refrigeration ads prepared for electrical refrigeration dealers.

Information passed on to subsidiary companies relative to the delivery dates and production situation with respect to "Hotpoint" Ranges.

Production and distribution of special air conditioning and ventilation broadside to promote the sale of ventilating fans and air conditioning for dealers. 5829

Price letter on changes in models of Rutenber Electric Company's Ranges and Westinghouse Ranges.

Distribution of clip sheets for food editors of various newspapers.

Further information with respect to preparation
5830 of broadside on air conditioning and ventilation; also tie-in with this program for newspaper advertising and truck poster service.

Information on building model electric kitchens in subsidiary companies' offices.

Change in design of Rutenber Electric Company's ranges.

Outline of June clean-up range and water heater campaign.

Further outline on range and water heater cam-
5931 paign with respect to employee and customer participation.

Information on value and results obtained from range trial installation plan.

Information letter with respect to large chain stores' acceptance of our dealer cooperative plan.

Information letter with respect to progress made on reduction of merchandise delinquency.

Information letter advising organization of approval of Marion water heater for use under our
5832 residential tariffs.

Information letter on new luminous fronts in commercial establishments.

Information letter covering suggested campaign plans for second six months' period of 1935; also "Oscar" Contest.

Information letter on change in wattages of the 80-gallon water heaters where manufacturer is able to furnish double-throw switches.

Exhibit 106

Price letter on "Hotpoint" water heaters.

Suggested broadside, and letter describing same, showing list of satisfied range users. 5833

Letter giving information on George A. Hughes award for outstanding range sales accomplished during 1935.

Letter telling of experience gained through customer contact regarding benefits of new Commercial Service Tariff.

Letter giving arrangements made with Ball Brothers Company, of Muncie, Indiana, manufacturers of jars and canning equipment, for a cooperative demonstration on electric canning. 5834

Information letter on matter of guarantee by Seth Thomas Company on electric timers.

Information letter describing plan developed by one subsidiary company on the securing of water heater prospects.

Information letter on new advertising idea covering the use of car bumper ads.

Information letter on a firm which is prepared to furnish replacement coils for all open type range units. 5835

Information letter covering complete plan of range and water heater sales, entitled "Pure Velvet."

Information letter describing billboard poster which was secured for the Better Light-Better Sight billboard poster.

Description of plan used by a subsidiary company in announcing a new line of range.

Exhibit 106

5836 Information letter describing plan for demonstrations of electric cookery to various church organizations.

Letter describing favorable reaction on Western Auto Supply Company to a re-lighting job completed in one of their stores.

Letter on Sales Engineers Manual on Air Conditioning.

Letter approving Hoffman electric water heater for use under our residential tariffs.

5837 Letter on car bumper advertising.

Information letter describing necessity of larger entrance switch for a new large-sized "Hotpoint" Range.

Letter describing calorimeter which can be used to determine the type of water heater tank which should be sold in localities having unusual water conditions.

Letter describing three months' schedule of car bumper advertisements.

5838 Information letter on year's newspaper advertising schedule.

Information letter describing newspaper schedule with respect to range and water heater sales contest.

Letter describing new film available on electric cookery.

Letter on information secured in rural survey.

Letter on progress made in reducing merchandise delinquents.

Exhibit 106

Information letter describing fall sales campaign, entitled "Thanksgiving-Christmas Campaign." 5839

Letter describing special employees' contest plan.

Information letter on Electrical Housewares Committee covering National Electrical Housewares Week and suggested company tie-in.

Letter describing suggested plan for demonstrating floodlighting to automobile service stations.

Information letter describing how special film on electric cookery can be used.

Follow-up letter on above giving additional information. 5840

Letter advising of special manufacturer's courtesy discount to employees on the purchase of electric ranges.

Letter advising of department's work towards interesting manufacturers in furnishing range connector with each range.

Letter advising of various motion picture equipment houses from which motion picture equipment can be secured for the showing of electric range films. 5841

Letter covering suggested outdoor advertising schedule.

Descriptive letter on new "Science of Seeing" demonstration and talk developed by one of our power engineers.

Advertising budget and report on advertising activities for the year.

Exhibit 106

Three months' schedule showing suggested use of
5842 car bumper advertisements.

Letter warning subsidiary companies to reduce range and water heater stocks due to new models being announced by manufacturers.

Information letter on what was found in investigation of water heaters where the city water supply was of an unusual condition.

Information letter describing plan of modernization of old electric ranges.

Letter describing new salary and commission sched-
5843 ule for salesmen.

Distribution of booklet, "Report and Recommendations to Subsidiary Companies—Residential Load Building Activities," prepared by Commercial Department.

Suggested procedure to be followed with respect to modernizing old electric ranges.

Distribution of "1c Thank You Cards." This is a form of advertising where the customer is given one of these cards, giving pertinent facts concern-
5844 ing the company's business, along with his change. Letter advising of approval of the Standard Electric Stove Company's water heater for our residential tariffs.

Letter describing special modernization price on Chromalox range units.

Information letter on tie-in with Better Light-Better Sight program.

Exhibit 106

Letter describing new procedure to be followed with respect to carrying ranges and their component parts in merchandise stock. 5845

Letter describing new procedure to be followed for purchasing electric ranges from the Rutenber Electric Company.

1935 Series of eighteen Electric Range Advertisements.

1935 Series of six Electric Water Heater Advertisements.

1935 Series of eleven Dealer-Cooperative Refrigerator Advertisements. 5846

1935 Statistical Series of twelve Advertisements.

1935 Series of twelve Utilization Advertisements.

1935 Series of twelve Rural Advertisements.

Folder containing Cuts of many different size ads designed to meet the demands of our subsidiary companies for special ads such as programs, rate holder advertisements, etc.

Booklet—(electric range booklet), entitled "Ten Keys to Happiness."

5847

Booklet—(water heater booklet), entitled "Living as you Desire it."

Complete truck poster service, consisting of one truck poster each month.

Special ads prepared for The Scranton Electric Company to cover special drive to keep electricians at work during unemployment period.

5848 Special Re-Employment Lamp Campaign series of ads prepared at request of The Ohio Power Company.

Special Street Lighting ad series prepared for Indiana General Service Company's Safety First Campaign.

Special Rural ads prepared for individual subsidiary companies to be run in Electricity on the Farm.

Special ads prepared for Appalachian Electric Power Company for N. & W. Magazine, Manufacturers Record, and Electrical South.

5849 Special series of ads prepared for Indiana General Service Company to be run in Rural Farm Papers. Ads prepared for The Ohio Power Company. Special issue of Coal Age and farm tour arranged for farmers to show rural electrification.

Special ads prepared for Atlantic City Electric Company for insertion in special farm papers.

Special series of ads prepared for Atlantic City Electric Company at their request for a special newspaper series of ads.

5850 Series of ads prepared for Appalachian Electric Power Company on the facts of our business.

Circular letters by the Purchasing Agent advising of the execution of bulk contracts, of probable changes in market conditions and prices of particular kinds of material and equipment, and advising of development by manufacturers of new types of equipment.

Series of monthly notes by Engineering Department on operating experience and practices, including en-

gineering developments, accounts of new tools and devices, notes on both operating and construction practices, results of tests and research of new materials and equipment. 5851

Series of monthly notes on power plant practice.

The Engineering Department does all the major engineering work for the group. In doing this work there are necessarily innumerable reports prepared ranging, on the one hand, from a survey as to the proper method of development of a distribution system in a particular area, to reports as to the need for major additions to the system's generating capacity, on the other hand. 5852

The construction engineering necessarily involves the preparation of detailed drawings and the furnishing of materials list. While the Engineering Department, in cooperation with field representatives of the operating companies, has devised many different kinds of construction standards, and it at all times has served as a clearing house for the general interchange of construction and operating knowledge among the operating companies, the bulk of the work relates to particular construction jobs or operating problems each of which calls for individual treatment, and it is considered impracticable to attempt to list all the reports, drawings, letters of advice, etc. which are furnished to or for the operating companies even for a limited period of time. 5853

Exhibit 106

SCHEDULE B

5854

Material Procured From Outside Sources And Sent By American Gas to the Operating Companies.

Commercial cooking pamphlet prepared by Edison General Electric Appliance Company.

Residential lighting booklet, prepared by General Electric Company.

"Hot point" broadsides.

Illuminating Engineering Society data.

5855 Lighting booklet, prepared by the General Electric Company.

Lighting recommendations for various types of outdoor sports, prepared by General Electric Company.

"Electric Kitchen Times," a monthly periodical on electric cookery.

Information on cooperation with Better Homes and Gardens Magazine in connection with Better Homes and Gardens Contest.

5856 Westinghouse Electric and Manufacturing Company's "Cool Electric Cookery" Program.

Better Vision Institute's bulletin on the subject of "Light Prescribing."

Air conditioning manual, prepared by outside sources.

Information circulated on Better Light-Better Sight Bureau's window display material.

Exhibit 106

Information on Westinghouse Company's range plan, "Personalized Plan." 5857

Article by Doctor William Brady on electric cooking.

Information on Visograph Corporation's new advertising medium.

Article in October issue of Edison Electric Institute's bulletin on municipal electric rates.

Information on Better Light-Better Sight window displays prepared by P. Bacon Richardson Company of New York City. 5858

Christmas Gift Selector, prepared by outside sources.

Information on Better Light-Better Sight broadcast, prepared by General Electric Company.

Information on new material for making signs.

"Hot point" and Westinghouse special employee broadsides announcing special employee prices on ranges.

Special Christmas window display—Better Light-Better Sight. 5859

Plan and exhibits of First Bancredit Corporation announcing their plan for dealer-finance of electric appliance.

Following items relating to the Wheeler-Rayburn Bill:

Reprint of editorial from New York Herald-Tribune.

Reprint of news item from New York Times, being report of the Business Advisory Counsel of the Department of Commerce.

Exhibit 106

Reprint of editorial from the New York American.

5860 Folders containing general opinion throughout the country on the subject of the bill.

Copies of circular letter of Blythe & Company, and report of radio address of April 25.

Copy of reprint of an article from the New York Journal.

Copy of leaflet containing opinions of the press, on the bill.

Copy of radio address by Doctor Hugh S. Magill, concerning the Rayburn Bill.

5861 Memorandum of Committee of Public Utility Executives, dated June 11, 1935, analyzing the bill.

Pamphlet by the Committee of Public Utility Executives, dated February 14, 1935, analyzing the bill.

Statement issued by the Committee of Public Utility Executives, on May 14, 1935, concerning amendment of the bill.

Copy of memorandum filed with the House Committee on Interstate and Foreign Commerce, by
5862 the Committee of Public Utility Executives, relating to the dissolution provisions of the bill.

Copy of pamphlet of the Committee of Public Utility Executives, dated March 8, 1935, analyzing the bill.

Copies of leaflet issued by the Committee of Public Utility Executives on the effect of the bill on operating companies.

Exhibit 106

Copies of booklet issued by the Committee of Public Utility Executives, dated February 26, 1935, concerning economic consequences of the bill. 5863

In addition there may have been, and probably were, from time to time mailings by American Gas to the operating companies of material in the nature of manufacturers' catalogs, price lists or even advertising material. As this was not a matter of routine, there is no record of how nor with respect to what particular items it may have occurred. 5864

SCHEDULE C

Material Sent to American Gas by Operating Companies.

The President, Secretary, Treasurer and some other principal executive officers of the subsidiary companies being located at the holding company office in New York, it is necessary for the operating companies in the field to send those officers many communications, reports, records, requests and forms. Among the material sent are included: 5865

Monthly financial reports, consisting of income statement, balance sheet, profit and loss statement and scores of subsidiary schedules.

Daily cash statements.

Requests for funds. Vouchers, payrolls and
5866 journal entries for audit.

Contracts, deeds, franchises and other such documents for examination, approval or file.

Purchase requests and copies of local orders.

Reports of prospective business and load added; of appliances sold and of business done.

Weekly and monthly reports of business condi-
5867 tions in the territories served.

Reports of status of physical property, energy generation and sales.

Reports of construction progress.

Requests for engineering information, advice and instructions.

Reports of operation of generation and transmission system.

5868 Part of the foregoing is covered by sending copies of forms, the original of which would be prepared, in any event, for use of the local staff. Other parts are covered by forms designed to take care of all requests of a given class by the local operating staff to New York, and other parts are covered by specific letters forming part of general correspondence. It is impracticable to list every such item even for a period of a month.

Exhibit 197

AMERICAN GAS LOANS TO SUBSIDIARIES

5869

Balances owing to American Gas by subsidiaries at the end of each year from 1920 to 1935, inclusive, by reason of loans or advances:

Dec. 31, 1920	—	$5,632,293
1921	—	3,241,126
1922	—	5,216,908
1923	—	14,010,829
1924	—	23,701,582
1925	—	17,780,248
1926	—	17,869,454
1927	—	39,963,137
1928	—	32,583,602
1929	—	39,882,553
1930	—	34,585,165
1931	—	32,593,572
1932	—	2,851,089
1933	—	2,514,402
1934	—	1,924,169
1935	—	6,599,710

5870

5871

5872

Exhibit 108

5873

AMERICAN GAS

INCOME AND EXPENSES

(opposite page)

5874

Exhibit 108

AMERICAN GAS

INCOME AND EXPENSES

	1920	1921	1922	1923	1924	1925	1926	1927
Income from Subsidiaries:								
Interest	$1 128 718	817 466	742 312	756 017	1 325 558	1 477 068	1 224 645	2 335 819
Preferred Dividends	197 370	245 244	241 181	215 130	208 764	746 581	1 925 890	1 497 228
Common "	1 367 852	1 781 385	2 420 806	3 400 290	4 721 223	5 670 095	9 569 897	10 961 360
Other Income								
Other Interest, Dividends, etc.	63 512	83 226	137 708	226 960	122 200	140 767	981 424	1 098 043
Engineering Fees	275 977	314 605	504 181	1 128 253	2 403 955	1 589 010	2 010 609	2 499 058
Engineering Expenses	64 286	74 245	107 969	460 295	430 207	382 879	484 030	708 934
Engineering Income	211 691	240 360	396 212	667 958	1 973 748	1 206 131	1 526 579	1 790 124
Service Charges	172 536	212 282	244 688	311 446	349 207	465 778	530 604	569 376
Service Expenses	172 536	212 282	244 688	311 446	349 207	465 778	530 604	569 376
Service Income	—	—	—	—	—	—	—	—
Total Income	2 969 143	3 167 681	3 938 219	5 266 355	8 351 493	9 240 642	15 228 435	17 682 574
Expenses and Taxes	290 295	166 830	254 596	418 901	422 300	474 810	423 713	624 499
Net before Charges	2 678 848	3 000 851	3 683 623	4 847 454	7 929 193	8 765 832	14 804 722	17 058 075
Charges:								
Interest on Funded Debt	1 027 237	675 286	714 595	1 071 927	1 629 830	2 595 757	3 018 340	3 128 340
Amortization of Debt Disc. & Exp.	215 125	136,497	4 271	8 663	20 317	37 299	41 379	42 060
Interest on Notes and/or Loans	27 952	59 108	67 468	86 739	180 081	127 701	321 052	73 447
Loss on Sale of Securities	197 448	201 199	—	276 377	167 586	591 666	745 998	31 639
Sundry Charges	—	3 500	278 550	96 629	16 913	71 145	1 673	*23 302* [2]
Total Charges	1 467 761	1 075 590	1 064 884	1 540 335	2 014 727	3 423 568	4 128 442	3 252 184
Balance for Preferred	1 211 087	1 925 261	2 618 739	3 307 119	5 914 466	5 342 264	10 676 280	13 805 891
Preferred Dividend	461 805	462 028	570 801	900 100	968 357	2 184 371	2 185 050	2 147 726
Net to Common	749 282	1 463 233	2 047 938	2 407 019	4 946 109	3 157 893	8 491 230	11 658 165
Common Dividend (Net)	782 232	813 488	2 249 833	1 081 003	5 191 507	1 743 859	7 075 692	2 633 152
Balance Credit or *Debit* to Surplus	$ *32 950*	649 745	*201 895*	1 326 016	*245 398*	1 414 034	1 415 538	9 025 013

[1] To close out security accounts extending back s

[2] Direct credit to profit and loss account in 1927.

1928	1929	1930	1931	1932	1933	1934	1935
3 333 837	4 217 650	4 491 958	4 319 088	3 651 466	3 226 581	3 197 417	3 204 158
1 573 956	1 832 677	2 045 085	1 366 981	1 711 984	1 899 691	1 908 083	1 910 050
9 685 091	12 911 409	11 273 969	11 193 155	7 364 397	6 082 615	5 807 999	7 403 868
		310 199	198 608				
2 046 086	1 538 529	691 794	480 800	400 409	396 885	311 374	279 629
2 228 019	2 780 381	1 809 060	884 369	332 530	None	None	None
527 096	906 946	671 385	489 279	175 868	Included in	"Services"	below
1 700 923	1 873 435	1 137 675	395 090	156 662	None	None	None
576 400	606 475	833 034	886 382	952 343	1 051 495	1 069 502	1 102 219
576 400	606 475	833 034	886 382	952 343	1 051 495	1 069 502	1 102 219
—	—	—	—	—	—	—	—
18 339 893	22 373 700	19 950 680	17 953 722	13 284 918	11 605 772	11 224 873	12 797 705
648 853	628 973	595 404	421 790	367 974	440,479	472 728	467 265
17 691 040	21 744 727	19 355 276	17 531 932	12 916 944	11 165 293	10 752 145	12 330 440
2 630 922	2 500 000	2 500 000	2 500 000	2 500 000	2 500 000	2 500 000	2 500 000
55 468	62 802	62 802	62 802	62 802	62 802	62 802	62 802
505 211	630 555	676 452	79 924	39 505	—	—	—
27 188	4 995	52 701	*16 580* [1]	201	—	—	—
—	—	—	—	—	—	—	—
3 218 789	3 198 352	3 291 955	2 626 146	2 602 508	2 562 802	2 562 802	2 562 802
14 472 251	18 546 375	16 063 321	14 905 786	10 314 436	8 602 491	8 189 343	9 767 638
2 119 940	2 119 944	2 125 692	2 133 738	2 133 738	2 133 738	2 133 738	2 133 738
12 352 311	16 426 431	13 937 629	12 772 048	8 180 698	6 468 753	6 055 605	7 633 900
12 668 841	4 250 750	10 843 792	5 512 987	5 739 283	5 969 455	6 202 945	6 267 073
316 530	12 175 681	3 093 837	7 259 061	2 441 415	499 298	*147 340*	1 366 827

several years. (Cr.)

Exhibit 109

PERSONNEL OF AMERICAN GAS

5878 **FEBRUARY, 1936**

1. Administrative Department.

6 Executive officers and assistants

5 Stenographers and clerks

Total 11

4 Lawyers

6 Stenographers and clerks

5879 Total 10

2. Legal Department.

3. Accounting Department.

9 Officers and assistants

5 Clerks and voucher machine operators

5 Stenographers and typists

Total 19

5880

4. Auditing and Bill Checking Departments.

4 General auditors and assistants

28 Traveling auditors

5 Bill checking department heads and assistants

7 Clerks and comptometer operators

2 Stenographers

Total 46

Exhibit 109

5. Stock and Dividend Department.

5881

4 Officer and assistants
6 Clerks and addressograph operators
2 Stenographers

Total 12

6. Statistical Department.

3 Department head and assistants
7 Clerks and stenographers

Total 10

7. Purchasing Department.

5882

5 Department head and assistants
7 Stenographers, typists and clerks

Total 12

8. Commercial Department.

6 Officer and assistants
7 Clerks and stenographers

Total 13

5883

9. Appraisal and Insurance Department.

5 Department heads and assistants
9 Field appraisers
7 Clerks and stenographers

Total 21

Exhibit 109

10. Engineering Department.

5884

8 Officer and assistants

33 Engineers:

8 Steam and boiler practice

5 Station and substation

10 Transmission, Relaying, etc.

5 Distribution, metering, etc.

5 Research, technical study, etc.

40 Draftsmen

5885

12 Stenographers and typists

Total 88

11. Filing and Mailing Department.

16 Clerks and junior clerks

2 Telephone operators

1 Porter

Total 19

5886

Grand Total 261

5887

Exhibit 110

MAP OF SERVICE AREAS OF THE PRINCIPAL ELECTRIC UTILITY SYSTEMS IN THE UNITED STATES

5888

This exhibit appears in volume VII, pages 2112 to 2113.

5889

Exhibit 111

5890

PHYSICAL OPERATIONS OF ELECTRIC UTILITY SUBSIDIARIES OF HOLDING DEFENDANTS

With Particular Reference to the Delivery and Receipt of Energy Across State Boundaries.

CONTENTS OF EXHIBIT

Table A: Analysis, by companies, of energy deliveries and sources and operating revenues.

Explanatory Notes.

Sheets 1-11: Energy Deliveries and Sources.

5891

(1) Subsidiaries of American, Electric and National Companies combined.

(2) Subsidiaries of American Company combined.

(3) Details of subsidiaries of American Company.

(4) Subsidiaries of Electric Company combined.

(5) Details of subsidiaries of Electric Company.

5892

(6) Subsidiaries of National Company combined.

(7) Details of subsidiaries of National Company.

(8) Auxiliary transfers to or from state boundaries by companies for account of others.

(8A) Identifiable loop transfers between points in same state through another state.

Exhibit 111

(9) Subsidiaries of American Gas combined.

(10) Details of subsidiaries of American Gas. 5893

(11) Subsidiaries of American, National and Electric Companies and American Gas combined.

Sheets 12-21: Operating Revenues.

(12) Subsidiaries of American, Electric and National Companies combined.

(13) Subsidiaries of American Company combined.

(14) Details of subsidiaries of American Company. 5894

(15) Subsidiaries of Electric Company combined.

(16) Details of subsidiaries of Electric Company.

(17) Subsidiaries of National Company combined.

(18) Details of subsidiaries of National Company.

(19) Subsidiaries of American Gas combined. 5895

(20) Details of subsidiaries of American Gas.

(21) Subsidiaries of American, National and Electric Companies and American Gas combined.

Exhibit 111

5896 Table B: Analysis by interconnected systems of energy handled by operating subsidiaries of holding defendants and of energy movement across state boundaries.

Explanatory Notes.

Sheet 1. Analysis by interconnected systems.

Sheet 2. Consolidated statement of energy handled.

Sheet 3. Consolidated statement of energy movement across state boundaries.

5997 Sheet 4. Analysis of energy movements across state boundaries shown in Sheets 1 and 3.

5898

Exhibit 111

ANALYSIS BY COMPANIES OF ENERGY DELIVERIES AND SOURCES AND OPERATING REVENUES. 5899

Table A

EXPLANATORY NOTES

I—*ENERGY DELIVERIES AND SOURCES*

Sheets Nos. 1 to 8A, inclusive, of Table A comprise an analysis of energy deliveries and energy sources for the electric utility operations of the subsidiaries of American Company, Electric Company and National Company, with particular reference to transactions across state boundaries. 5900 Sheets Nos. 9 and 10 comprise a similar analysis for the subsidiaries of American Gas, and Sheet No. 11 is a combined analysis for the subsidiaries of the four companies.

A. *Scope of analysis*

In the various detail sheets of this analysis, the operations of each of the electric utility subsidiaries are shown separately; in cases 5901 where the utility operates in more than one state, the operations in each state are shown separately; and in cases where a part of the utility's system is isolated from the main system and such isolated operations differ from the operations of the main system in their relation to transactions across state boundaries, such isolated systems are also shown separately.

5902 In the summary sheets there are shown (a) the respective combined operations of the subsidiaries of each of the four companies,

(b) the combined operations of the subsidiaries of American Company, Electric Company and National Company, (c) the combined operations of the subsidiaries of all four companies.

B. *Notes on analysis of energy deliveries*

5903 Energy deliveries are analyzed under three classes: (1) Energy deliveries within a state in which a company conducts an electric utility business; (2) energy transfers out of state across a state boundary by a company over its own facilities and for its own account; (3) energy sales at or across a state boundary. In the latter class (energy sales at or across a state boundary) are included all sales of energy across a state boundary, even in cases where the sale is made not at the boundary but within a state, if the energy involved in the sale is carried across a state

5904 boundary without commingling with energy from another source, either by the company before delivery or by the purchaser after receipt. Such sales are accordingly not shown in the first class (sales within a state in which a company conducts an electric utility business), even if delivery is made by the company in a state in which it conducts an electric utility business.

(1) The first class of energy deliveries (within a state in which a company conducts an electric utility business) is broken down into four classes: 5905

(a) Sales to ultimate consumers.

Included in ultimate consumers are sales to other departments of the utility company, such as an electric railway department.

(b) Sales at wholesale of energy for distribution solely in state.

5906

This item includes sales at wholesale for resale of energy to other electric utilities and to municipal distribution systems in cases where it is definitely ascertainable that the energy so sold is solely for ultimate distribution within the state.

(c) Sales at wholesale of energy which may in part go outside of state after commingling with other energy generated within the state.

5907

This item includes cases where it is possible that some part of the energy sold commingles with other energy generated within the state and subsequently is transmitted out of the state, even though it is not known whether such transfer out of the state does in fact exist. It should be noted that, as to energy involved in this class of sales at wholesale to an associate, if any of such energy is

5908 in fact transferred or sold across a state boundary by such associate, it is included in the state boundary transfers or sales shown as such in Table A in the operations of such associate.

These sales of energy which may in part go outside the state after commingling are broken into four sub-items, distinguishing sales to an associate company from sales to a non-associate company, and distinguishing firm power sales from non-firm power sales. For the purpose

5909 of avoiding undue complication in Table A, there have been included under the caption "to an associate company" all transactions between subsidiaries of the American Company, Electric Company and National Company respectively, and between subsidiaries of any one of these three and American Gas, although defendants do not concede that a subsidiary of one of these groups can be considered an associate of a subsidiary of another of the groups, except as the term "associate" is defined by the Act.

5910 Under the item "firm power" sales are included all sales which under the terms of the contract represent a firm obligation to deliver upon the part of the seller. under the terms of a contract or arrangement by the seller only when, as and if available from the seller's resources after supplying the seller's firm commitments to other customers. Under "non-firm power" sales are included sales of "sur-

plus" hydro-electric energy and sales of "economy" steam energy, such "economy" sales representing a transaction in which both seller and buyer have adequate generating facilities, but the seller has temporarily available generating units of lower generating cost than the generating units which the buyer would be required to use if he did not purchase the so-called "economy" energy. Under "non-firm power" sales are also included "emergency" energy sold to another system, in cases where the seller agrees to furnish such emergency energy only when, as and if available but does not agree to be in readiness at all times to furnish emergency service. 5911 5912

(2) The second class of energy deliveries (Transfers out of a state across a state boundary by a company over its own lines for its own account) includes, first, transfers from the state of origin for distribution by the company in another state, and, second, transfers into a second state where it cannot be determined whether the energy involved is distributed in the second state or is subsequently transferred to a third state or back to the first state. Identifiable loop transfers from the state of origin through a second state and thence back to the state of origin are not included as energy deliveries or sources, but are shown separately on Sheet No. 8A of Table A. 5913

(3) The third class of energy deliveries (Sales at
5914 or across a state boundary) is broken down into four items, distinguishing between "associate" and "non-associate" companies and between "firm power" and "non-firm power" sales, on the basis outlined above.

C. *Notes on analysis of energy sources*

Energy sources are likewise analyzed under three classes: (1) Energy sources within a state in which a company conducts an electric utility business; (2) energy transfers into
5915 state across a state boundary by a company over its own facilities and for its own account; and (3) energy purchases at or across a state boundary. In the latter class are included all purchases of energy across a state boundary even in cases where the purchase is not made at the boundary, but within the state where delivered, if the energy involved in the purchase is carried by either the buyer or the seller across a state boundary without commingling with energy from another source.

5916

(1) The first class of energy sources (within a state in which a company conducts an electric utility business) is broken down into three items:

(a) Generation by the company.

(b) Purchases of energy generated solely in the state of purchase.

This item includes purchases from other utility systems and from non-utility sources in cases where it is possible to ascertain definitely that the energy purchased was generated solely in the state of purchase. 5917

(c) Purchases of energy which may in part be commingled with energy generated outside of the state.

This item includes cases where it is possible that energy purchased in the state is in part commingled with energy generated outside of the state, even though it is not known whether such commingling in fact takes place. 5918

These purchases of energy which may in part be commingled with energy generated outside of the state are broken down into four sub-items, distinguishing purchases from an associate company from purchases from a non-associate company, and distinguishing firm power purchases from non-firm power purchases. The distinction between an associate and a non-associate company and between firm power and non-firm power is as outlined under paragraph B above. 5919

(2) The second class of energy sources (Transfers into a state across a state boundary by a company over its own lines for its own account) includes, as noted for the corresponding class of energy deliveries, all transfers by a company from a state of origin into a

state of distribution, except identifiable loop
5920 transfers between points in the state of origin through a second state, which identifiable loop transfers are shown separately on Sheet No. 8A of Table A.

(3) The third class of energy sources (Purchases at or across a state boundary) is broken down into four items on the same basis as the corresponding class of energy sources.

D. *Notes on auxiliary transfers to and from state boundaries by companies for account of*
5921 *others*

On Sheet No. 8 of Table A is a tabulation giving certain additional information in connection with transactions listed on Sheets 1 to 7 of Table A.

Sheets Nos. 1 to 7 of Table A show all transactions across state boundaries for operating utilities in the American, Electric and National Company Groups, but they do not indicate the part played in some cases by a third
5922 company in conducting an auxiliary transfer between the seller and the buyer in a transaction across a state boundary, and they do not show where a transaction across a state boundary involved a crossing of more than one state boundary. Such auxiliary transfers and subsequent crossings of state boundaries are shown in the first tabulation on Sheet No. 8. Their relation to the transactions summarized on Sheet No. 1 is as follows:

Exhibit 111

First—

Referring to aggregate sales at or across state boundaries of 882,390 M kwh, shown on Sheet No. 1 for the year 1934, 261,235 M kwh of this amount are shown on Sheet No. 8 to have been transmitted from the state boundary where the selling company made delivery to another point where a purchasing company received the energy. With respect to such three-party transactions, the selling company, the purchasing company and the company over whose lines the auxiliary transfer is made are shown respectively in this tabulation.

5923

5925

Second—

Of the 882,390 M kwh of sales at or across a state boundary shown on Sheet No. 1 for the year 1934, 94,763 M kwh are shown on Sheet No. 8 as having crossed a second state boundary in transit to the purchasing company, and 20,947 M kwh as having crossed a third boundary in transit to the purchasing company, all as set forth in detail in this tabulation.

5924

E. *Notes on identifiable loop transfers between points in same state through another state*

This tabulation, on Sheet No. 8A of Table A, lists certain identifiable loop transfers described in Article XIX, but not listed on Sheets Nos. 1 to 7 of Table A.

5926 As shown by the total for this tabulation, 166,346 M kwh in the year 1934 were transferred from the state of origin through another state or states back to the state of origin, and the tabulation sets forth the company for whose account each transfer was made and the company over whose lines the portion of each transfer taking place outside of the state was made.

All of these transactions involved crossing of at least two state boundaries, i.e., out of the state of origin into the second state and back into the state of origin from the second state,

5927 and in one case, the last in the tabulation, 4,014 M kwh, three boundary crossings were involved, since the transfer from the state of origin back to the state of origin was effected through two adjoining states.

II—*STATEMENT OF ELECTRIC OPERATING REVENUES, SHOWING REVENUES FROM ENERGY SALES AT OR ACROSS STATE BOUNDARIES AND PURCHASE PRICE OF ENERGY PURCHASED AT OR ACROSS STATE BOUNDARIES*

5928 Sheets Nos. 12 to 18, inclusive, of Table A comprise an analysis of electric operating revenues of the electric utility subsidiaries of American Company, Electric Company and National Company, with particular reference to revenues from state boundary transactions, and they also show the purchase price of energy purchased across state boundaries. Sheets Nos. 19 and 20 comprise a similar

analysis for the subsidiaries of American Gas, and Sheet No. 21 is a combined analysis for the subsidiaries of the four companies. 5929

A. *Scope of analysis*

The scope of this analysis corresponds to that of energy deliveries and sources on Sheets Nos. 1 to 11 of Table A.

B. *Notes on electric operating revenues*

The classification of electric revenues corresponds to that of energy deliveries on Sheets Nos. 1 to 11, although in one class fewer sub-items are shown. 5930

The item "Revenues from energy transfers to or from a state boundary" comprises revenues from certain transactions shown on Sheet No. 8 of Table A.

It should be noted that in a few instances the total electric revenues shown differ by minor amounts from the electric revenues shown in the books of the respective utility companies, for reasons, indicated by footnotes on Table A, as follows: 5931

(1) Certain small amounts are here shown as revenues from energy transfers which in the companies' books are treated as credits to other accounts than revenues.

5932 (2) Certain small amounts are here shown as revenues from sales at wholesale for resale, consisting of receipts by one company from certain "economy" energy interchange transactions, which amounts appear in the companies' books as credits to production expense rather than as revenues.

C. *Notes on purchase price of energy purchased at or across a state boundary*

5933 The classification of this item corresponds to the classification of the corresponding item in energy sources appearing on Sheets Nos. 1 to 11 of Table A.

5934

ENERGY DELIVERIES AND SOURCES—YEAR 1934

AMERICAN COMPANY GROUP, ELECTRIC COMPANY GROUP AND NATIONAL COMPANY GROUP COMBINED

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business					
(a) Sales to ultimate consumers	2,009,129	2,450,227	2,682,542	7,141,898	
(b) Sales at wholesale of energy for distribution solely in state	214,098	197,098	185,389	596,585	
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state					
(1) To an associate company —firm power	65,700	—	74,460	140,160	
(2) To an associate company —non-firm power	117,725	—	237,159	354,884	
(3) To a non-associate company—firm power	—	35,339	4,940	40,279	
(4) To a non-associate company—non-firm power	1,461	109,512	105,181	216,154	
(d) Uses and losses in company's own system	401,374	428,473	754,160	1,584,007	
Total within state	2,809,487	3,220,649	4,043,831	10,073,967	87.0
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	624,431	624,431	5.4
3. Sales at or across a state boundary					
(a) To an associate company —firm power	—	198,917	184,217	383,134	
(b) To an associate company —non-firm power	—	224,834	232,528	457,362	
(c) To a non-associate company—firm power	—	550	3,038	3,588	
(d) To a non-associate company—non-firm power	—	30,900	7,406	38,306	
Total sales at or across a state boundary	—	455,201	427,189	882,390	7.6
TOTAL DELIVERIES	2,809,487	3,675,850	5,095,451	11,580,788	100.0
ENERGY SOURCES					
4. Within state in which company does business					
(a) Generation by company	2,211,407	2,745,983	3,341,721	8,299,111	
(b) Purchases of energy generated solely in state	589,494	292,085	648,344	1,529,923	
(c) Purchases of energy which may in part be commingled with energy generated outside of state					
(1) From an associate company —firm power	2,348	66,677	124	69,149	
(2) From an associate company —non-firm power	55	—	47,522	47,577	
(3) From a non-associate company—firm power	6,183	13,922	—	20,105	
(4) From a non-associate company—non-firm power	—	84,038	223,740	307,778	
Total within state	2,809,487	3,202,705	4,261,451	10,273,643	88.7
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	624,431	624,431	5.4
6. Purchases at or across a state boundary					
(a) From an associate company —firm power	—	229,997	153,137	383,134	
(b) From an associate company —non-firm power	—	224,834	56,429	281,263	
(c) From a non-associate company—firm power	—	1,990	—	1,990	
(d) From a non-associate company—non-firm power	—	16,324	3	16,327	
Total purchases at or across a state boundary	—	473,145	209,569	682,714	5.9
TOTAL SOURCES	2,809,487	3,675,850	5,095,451	11,580,788	100.0

Exhibit 111

5938

TABLE A—SHEET 2

5940

(opposite page)

5940

TABLE A - SHEET 2

ENERGY DELIVERIES AND SOURCES—YEAR 1934

AMERICAN COMPANY GROUP COMBINED

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	TOTAL GRAND Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business					
(a) Sales to ultimate consumers	825,467	546,826	1,776,284	3,148,577	
(b) Sales at wholesale of energy for distribution solely in state	144,029	14,195	46,890	205,114	
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state					
(1) To an associate company —firm power	65,700	—	74,460	140,160	
(2) To an associate company —non-firm power	111,897	—	63,029	174,926	
(3) To a non-associate company—firm power	—	18,638	4,940	23,578	
(4) To a non-associate company—non-firm power	1,461	—	22,246	23,707	
(d) Uses and losses in company's own system	231,754	85,990	412,969	730,713	
Total within state	1,380,308	665,649	2,400,818	4,446,775	90.4
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	403,970	403,970	8.2
3. Sales at or across a state boundary					
(a) To an associate company —firm power	—	59,305	—	59,305	
(b) To an associate company —non-firm power	—	1,143	145	1,288	
(c) To a non-associate company—firm power	—	401	270	671	
(d) To a non-associate company—non-firm power	—	4,422	5,388	9,810	
Total sales at or across a state boundary	—	65,271	5,803	71,074	1.4
TOTAL DELIVERIES	1,380,308	730,920	2,810,591	4,921,819	100.0
ENERGY SOURCES					
4. Within state in which company does business					
(a) Generation by company	1,179,595	668,204	2,024,482	3,872,281	
(b) Purchases of energy generated solely in state	197,329	2,268	338,551	538,148	
(c) Purchases of energy which may in part be commingled with energy generated outside of state					
(1) From an associate company —firm power	—	—	124	124	
(2) From an associate company —non-firm power	55	—	43,315	43,370	
(3) From a non-associate company—firm power	3,329	—	—	3,329	
(4) From a non-associate company—non-firm power	—	—	1	1	
Total within state	1,380,308	670,472	2,406,473	4,457,253	90.6
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	403,970	403,970	8.2
6. Purchases at or across a state boundary					
(a) From an associate company —firm power	—	59,305	—	59,305	
(b) From an associate company —non-firm power	—	1,143	145	1,288	
(c) From a non-associate company—firm power	—	—	—	—	
(d) From a non-associate company—non-firm power	—	—	3	3	
Total purchases at or across a state boundary	—	60,448	148	60,596	1.2
TOTAL SOURCES	1,380,308	730,920	2,810,591	4,921,819	100.0

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1982

Exhibit 111

5944

TABLE A—SHEET 3

5945

(opposite page)

5946

Exhibit 111 (Continued) 1983

ENERGY DELIVERIES AND SOURCES—YEAR 1934

TABLE A—SHEET 3

AMERICAN COMPANY GROUP

	Northwestern Electric Co.		Pacific Power & Light Co.			Inland Power & Light Co.		Washington Water Power Co.		Montana Power Co.				
	Washington Mkwh	Oregon Mkwh	Main Washington Mkwh	Main Oregon Mkwh	Isolated Oregon Mkwh	Washington Mkwh	Oregon Mkwh	Washington Mkwh	Idaho Mkwh	Idaho Mkwh	Montana Mkwh	Minnesota P & L Co. Mkwh	Northern Power Co. Mkwh	Superior W L & P Co. Mkwh
ENERGY DELIVERIES														
1. Within state in which company does business														
(a) Sales to ultimate consumers	138,138	112,290	90,818	26,545	23,387	—	—	348,757	154,818	17,452	691,376	222,698	20,113	10,827
(b) Sales at wholesale of energy for distribution solely in state	2,477	—	—	1,720	152	—	2,978	26,315	4,675	—	1,266	13,989	—	166
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state														
(1) To an associate company —firm power	—	—	—	—	—	65,700	—	74,460	—	—	—	—	—	—
(2) To an associate company —non-firm power	—	—	43,200	—	—	111,897	—	19,829	—	—	—	—	—	—
(3) To a non-associate company—firm power	61	—	—	—	—	—	—	4,879	—	—	—	—	—	—
(4) To a non-associate company—non-firm power	—	22,220	—	—	—	—	—	—	—	—	—	—	—	—
(d) Uses and losses in company's own system	28,801	21,666	38,370	9,971	8,314	55	—	122,215	20,859	1,570	131,337	50,352	2,157	1,641
Total within state	169,477	156,176	172,388	38,236	31,853	177,652	2,978	596,455	180,352	19,022	823,979	287,039	22,270	12,634
2. Transfers out of state across a state boundary by company over its own facilities for its own account	153,818	14	12,535	34,441	—	—	—	165,200	9,890	—	18,907	—	—	—
3. Sales at or across a state boundary														
(a) To an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—	33,737	—	—
(b) To an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	145	1,143	—	—
(c) To a non-associate company—firm power	—	—	—	—	—	—	—	270	—	—	—	33	—	—
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	5,385	—	—	—	—	—	—
Total sales at or across a state boundary	—	—	—	—	—	—	—	5,655	—	—	145	34,913	—	—
TOTAL DELIVERIES	323,295	156,190	184,923	72,677	31,853	177,652	2,978	767,310	190,242	19,022	843,031	321,952	22,270	12,634
ENERGY SOURCES														
4. Within state in which company does business														
(a) Generation by company	100,320	2,372	34,226	60,142	28,578	177,597	2,978	724,145	24,897	—	837,960	319,684	—	24
(b) Purchases of energy generated solely in state	179,760	—	116,132	—	3,275	—	—	33,275	—	—	5,071	2,268	—	—
(c) Purchases of energy which may in part be commingled with energy generated outside of state														
(1) From an associate company —firm power	—	—	124	—	—	—	—	—	—	—	—	—	—	—
(2) From an associate company —non-firm power	43,200	—	—	—	—	55	—	—	—	115	—	—	—	—
(3) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(4) From a non-associate company—non-firm power	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Total within state	323,281	2,372	150,482	60,142	31,853	177,652	2,978	757,420	24,897	115	843,031	321,952	—	24
5. Transfers into state across a state boundary by company over its own facilities for its own account	14	153,818	34,441	12,535	—	—	—	9,890	165,200	18,907	—	—	—	—
6. Purchases at or across a state boundary														
(a) From an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—	—	22,270	11,467
(b) From an associate company —non-firm power	—	—	—	—	—	—	—	—	145	—	—	—	—	1,143
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	—	—	—	—	—	—	—	145	—	—	—	22,270	12,610
TOTAL SOURCES	323,295	156,190	184,923	72,677	31,853	177,652	2,978	767,310	190,242	19,022	843,031	321,952	22,270	12,634

1984

Exhibit 111

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TABLE A—SHEET 3— (*Continued*)

5951

(opposite page)

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ENERGY DELIVERIES AND SOURCES—YEAR 1934

AMERICAN COMPANY GROUP

	Nebraska Power Co. Mkwh	Kansas G and E Co. Citizens P & L Co. Mkwh	Kansas Mkwh	Missouri Mkwh	Central Arizona L & P Co. Mkwh	New Mexico El Serv Co Mkwh	Except Eagle Pass Mkwh	Texas Electric Service Co. Eagle Pass Texas Mkwh	Eagle Pass Mexico# Mkwh	Texas P & L Co Mkwh	Texas Pub Util Corp Mkwh	Florida P & L Co Mkwh
ENERGY DELIVERIES												
1. Within state in which company does business												
(a) Sales to ultimate consumers	271,276	21,912	186,803	6,136	68,554	2,213	253,566	1,956	1,195	309,164	1,427	167,156
(b) Sales at wholesale of energy for distribution solely in state	40	—	10,437	—	—	—	87,344	—	—	53,480	—	75
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state												
(1) To an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—	—
(2) To an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(3) To a non-associate company—firm power	18,638	—	—	—	—	—	—	—	—	1,461**	—	—
(4) To a non-associate company—non-firm power	—	—	26	—	—	323	63,349	683	418	95,419	367	50,365
(d) Uses and losses in company's own system	28,183	3,657	35,663	1,416	13,562	2,536	404,259	2,639	1,613	459,524	1,794	217,596
Total within state	318,137	25,569	232,929	7,552	82,116							
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	7,552	—	—	—	—	1,613	—	—	—	—
3. Sales at or across a state boundary												
(a) To an associate company —firm power	25,568	—	—	—	—	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	368	—	—	—	—	—	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	4,422	—	3	—	—	—	—	—	—	—	—	—
Total sales at or across a state boundary	30,358	—	3	—	—	—	—	—	—	—	—	—
TOTAL DELIVERIES	348,495	25,569	240,484	7,552	82,116	2,536	404,259	4,252	1,613	459,524	1,794	217,596
ENERGY SOURCES												
4. Within state in which company does business												
(a) Generation by a company	348,495	1	240,414	—	—	2,536	344,741	6	—	410,368	—	212,857
(b) Purchases of energy generated solely in state	—	—	67	—	82,116	—	59,518	4,246	—	49,216	1,794	1,410
(c) Purchases of energy which may in part be commingled with energy generated outside of state												
(1) From an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—	—
(2) From an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(3) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—	*3,329
(4) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
Total within state	348,495	1	240,481	—	82,116	2,536	404,259	4,252	—	459,524	1,794	217,596
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	—	7,552	—	—	—	—	1,613	—	—	—
6. Purchases at or across a state boundary												
(a) From an associate company —firm power	—	25,568	—	—	—	—	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	3	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	25,568	3	—	—	—	—	—	—	—	—	—
TOTAL SOURCES	348,495	25,569	240,484	7,552	82,116	2,536	404,259	4,252	1,613	459,524	1,794	217,596

Mexican distribution system later sold and disconnected.

** Non-associate company's connection across state boundary discontinued in 1935.

* Energy supply for isolated distribution system, discontinued in 1935.

Exhibit 111

5956

TABLE A—SHEET 4

5957

(opposite page)

5958

TABLE A - SHEET - 4

ENERGY DELIVERIES AND SOURCES—YEAR 1934

ELECTRIC COMPANY GROUP COMBINED

	Subtotal — Properties in one state with no transactions across state boundaries Mkwh	Subtotal — Properties in one state with transactions across state boundaries Mkwh	Subtotal — Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business					
(a) Sales to ultimate consumers	436,136	512,453	544,182	1,492,771	
(b) Sales at wholesale of energy for distribution solely in state	57,674	21,925	16,370	95,969	
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state					
(1) To an associate company —firm power	—	—	—	—	
(2) To an associate company —non-firm power	5,828	—	12,861	18,689	
(3) To a non-associate company—firm power	—	16,701	—	16,701	
(4) To a non-associate company—non-firm power	—	—	—	—	
(d) Uses and losses in company's own system	69,741	131,194	167,972	368,907	
Total within state	569,379	682,273	741,385	1,993,037	74.4
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	118,143	118,143	4.4
3. Sales at or across a state boundary					
(a) To an associate company —firm power	—	138,770	153,137	291,907	
(b) To an associate company —non-firm power	—	223,548	48,561	272,109	
(c) To a non-associate company—firm power	—	149	2,768	2,917	
(d) To a non-associate company—non-firm power	—	—	—	—	
Total sales at or across a state boundary	—	362,467	204,466	566,933	21.2
TOTAL DELIVERIES	569,379	1,044,740	1,063,994	2,678,113	100.0
ENERGY SOURCES					
4. Within state in which company does business					
(a) Generation by company	560,618	622,232	696,376	1,879,226	
(b) Purchases of energy generated solely in state	4,983	59,205	47,777	111,965	
(c) Purchases of energy which may in part be commingled with energy generated outside of state					
(1) From an associate company —firm power	924	—	—	924	
(2) From an associate company —non-firm power	—	—	—	—	
(3) From a non-associate company—firm power	2,854	—	—	2,854	
(4) From a non-associate company—non-firm power	—	—	—	—	
Total within state	569,379	681,437	744,153	1,994,969	74.5
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	118,143	118,143	4.4
6. Purchases at or across a state boundary					
(a) From an associate company —firm power	—	139,612	153,137	292,749	
(b) From an associate company —non-firm power	—	223,691	48,561	272,252	
(c) From a non-associate company—firm power	—	—	—	—	
(d) From a non-associate company—non-firm power	—	—	—	—	
Total purchases at or across a state boundary	—	363,303	201,698	565,001	21.1
TOTAL SOURCES	569,379	1,044,740	1,063,994	2,678,113	100.0

Exhibit 111

5962

TABLE A—SHEET 5

5963

(opposite page)

5964

ENERGY DELIVERIES AND SOURCES--YEAR 1934

ELECTRIC COMPANY GROUP

	IDAHO POWER CO				UTAH POWER & LIGHT CO						
	Main System Idaho	Salmon Idaho	Oregon	Nevada	Main System Utah	Isolated Utah	Idaho	Main System Wyo	Isolated Wyo	Western Colorado Power Co	Bountiful L & P Co
	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh
ENERGY DELIVERIES											
1. Within state in which company does business	115,906	551	16,944	1,021	382,292	593	26,623	1,396	1,224	15,709	618
(a) Sales to ultimate consumers	8,877	—	—	—	6,774	—	719	—	—	1,045	—
(b) Sales at wholesale of energy for distribution solely in state											
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state											
(1) To an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—
(2) To an associate company —non-firm power	12,861	—	—	—	—	—	—	—	—	—	—
(3) To a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(4) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
(d) Uses and losses in company's own system	65,188	149	4,326	52	75,269	275	22,759	378	437	6,313	306
Total within state	202,832	700	21,270	1,073	464,335	868	50,101	1,774	1,661	23,067	924
2. Transfers out of state across a state boundary by company over its own facilities for its own account	22,338	—	—	—	1,774	—	94,031	—	—	—	—
3. Sales at or across a state boundary											
(a) To an associate company —firm power	153,137	—	—	—	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	48,561	—	—	—	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	2,768	—	—	—	—	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
Total sales at or across a state boundary	204,466	—	—	—	—	—	—	—	—	—	—
TOTAL DELIVERIES	429,636	700	21,270	1,073	466,109	868	144,132	1,774	1,661	23,067	924
ENERGY SOURCES											
4. Within state in which company does business	398,754	700	5	—	166,430	868	121,187	—	1,661	23,067	—
(a) Generation by company	30,882	—	—	—	3,950	—	12,945	—	—	—	—
(b) Purchases of energy generated solely in state											
(c) Purchases of energy which may in part be commingled with energy generated outside of state											924
(1) From an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—
(2) From an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—
(3) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(4) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
Total within state	429,636	700	5	—	170,380	868	144,132	—	1,661	23,067	924
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	21,265	1,073	94,031	—	—	1,774	—	—	—
6. Purchases at or across a state boundary											
(a) From an associate company —firm power	—	—	—	—	153,137	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	48,561	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	—	—	—	201,698	—	—	—	—	—	—
TOTAL SOURCES	429,636	700	21,270	1,073	466,109	868	144,132	1,774	1,661	23,067	924

Exhibit 111

5968

TABLE A—SHEET 5—*Continued*

5969

(opposite page)

5970

ENERGY DELIVERIES AND SOURCES—YEAR 1934

ELECTRIC COMPANY GROUP

	Arkansas P & L Co		Louisiana P & L Co		MISSISSIPPI POWER & LIGHT CO					
	Main	Isolated	Main	Isolated	Main	Natchez	Northern	Isolated	New Orleans P S Inc	Dallas P & L Co
	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh
ENERGY DELIVERIES										
1. Within state in which company does business										
(a) Sales to ultimate consumers	216,389	2,406	182,244	1,024	109,257	3,889	674	903	215,412	197,696
(b) Sales at wholesale of energy for distribution solely in state	15,448	—	6,359	—	118	—	—	27	52,877	3,725
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state										
(1) To an associate company —firm power	—	—	—	—	—	—	—	—	—	—
(2) To an associate company —non-firm power	—	—	—	—	—	—	—	—	5,828	—
(3) To a non-associate company—firm power	16,701	—	—	—	—	—	—	—	—	—
(4) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
(d) Uses and losses in company's own system	62,094	845	37,261	171	31,180	491	168	512	33,576	27,157
Total within state	310,632	3,251	225,864	1,195	140,555	4,380	842	1,442	307,693	228,578
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	—	—	—	—	—	—	—	—
3. Sales at or across a state boundary										
(a) To an associate company —firm power	—	—	138,770	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	4,773	—	218,775	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	—	—	—	—	—	149	—	—	—	—
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
Total sales at or across a state boundary	4,773	—	357,545	—	—	149	—	—	—	—
TOTAL DELIVERIES	315,405	3,251	583,409	1,195	140,555	4,529	842	1,442	307,693	228,578
ENERGY SOURCES										
4. Within state in which company does business										
(a) Generation by company	95,992	87	519,926	691	1,785	4,529	—	960	307,693	224,891
(b) Purchases of energy generated solely in state	495	310	58,710	504	—	—	—	482	—	3,687
(c) Purchases of energy which may in part be commingled with energy generated outside of state										
(1) From an associate company —firm power	—	—	—	—	—	—	—	—	—	—
(2) From an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—
(3) From a non-associate company—firm power	—	2,854	—	—	—	—	—	—	—	—
(4) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
Total within state	96,487	3,251	578,636	1,195	1,785	4,529	—	1,442	307,693	228,578
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	—	—	—	—	—	—	—	—
6. Purchases at or across a state boundary										
(a) From an associate company —firm power	—	—	—	—	138,770	—	842	—	—	—
(b) From an associate company —non-firm power	218,918	—	4,773	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	218,918	—	4,773	—	138,770	—	842	—	—	—
TOTAL SOURCES	315,405	3,251	583,409	1,195	140,555	4,529	842	1,442	307,693	228,578

1992

Exhibit 111

5974

TABLE A—SHEET 6

5975

(opposite page)

5976

TABLE A—SHEET 6

Exhibit 111 (Continued)

ENERGY DELIVERIES AND SOURCES—YEAR 1934

NATIONAL COMPANY GROUP COMBINED

	Subtotal — Properties in one state with no transactions across state boundaries Mkwh	Subtotal — Properties in one state with transactions across state boundaries Mkwh	Subtotal — Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business					
(a) Sales to ultimate consumers	747,526	1,390,948	362,076	2,500,550	
(b) Sales at wholesale of energy for distribution solely in state	12,395	160,978	122,129	295,502	
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state					
(1) To an associate company —firm power	—	—	—	—	
(2) To an associate company —non-firm power	—	—	161,269	161,269	
(3) To a non-associate company—firm power	—	—	—	—	
(4) To a non-associate company—non-firm power	—	109,512	82,935	192,447	
(d) Uses and losses in company's own system	99,879	211,289	173,219	484,387	
Total within state	859,800	1,872,727	901,628	3,634,155	91.3
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	102,318	102,318	2.6
3. Sales at or across a state boundary					
(a) To an associate company —firm power	—	842	31,080	31,922	
(b) To an associate company —non-firm power	—	143	183,822	183,965	
(c) To a non-associate company—firm power	—	—	—	—	
(d) To a non-associate company—non-firm power	—	26,478	2,018	28,496	
Total sales at or across a state boundary	—	27,463	216,920	244,383	6.1
TOTAL DELIVERIES	859,800	1,900,190	1,220,866	3,980,856	100.0
ENERGY SOURCES					
4. Within state in which company does business					
(a) Generation by company	471,194	1,455,547	620,863	2,547,604	
(b) Purchases of energy generated solely in state	387,182	230,612	262,016	879,810	
(c) Purchases of energy which may in part be commingled with energy generated outside of state					
(1) From an associate company —firm power	1,424	66,677	—	68,101	
(2) From an associate company —non-firm power	—	—	4,207	4,207	
(3) From a non-associate company—firm power	—	13,922	—	13,922	
(4) From a non-associate company—non-firm power	—	84,038	223,739	307,777	
Total within state	859,800	1,850,796	1,110,825	3,821,421	96.0
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	102,318	102,318	2.6
6. Purchases at or across a state boundary					
(a) From an associate company —firm power	—	31,080	—	31,080	
(b) From an associate company —non-firm power	—	—	7,723	7,723	
(c) From a non-associate company—firm power	—	1,990	—	1,990	
(d) From a non-associate company—non-firm power	—	16,324	—	16,324	
Total purchases at or across a state boundary	—	49,394	7,723	57,117	1.4
TOTAL SOURCES	859,800	1,900,190	1,220,866	3,980,856	100.0

Exhibit 111

5980

TABLE A—SHEET 7

5981

(opposite page)

5982

Exhibit 111 (Continued) TABLE A—SHEET 7

ENERGY DELIVERIES AND SOURCES—YEAR 1934

NATIONAL COMPANY GROUP

	Pennsylvania P & L Co		Carolina Power & Light Company			Tennessee	Holston	Birmingham	W Tenn	Memphis	Houston
	Main	Isolated	No Carolina	So Carolina	Tenn a/c	P S Co	River Elec Co	Elec Co	P & L Co	P & L Co	L & P Co
	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh
ENERGY DELIVERIES											
1. Within state in which company does business											
(a) Sales to ultimate consumers	1,156,573	133,428	292,079	69,997	—	83,891	1,223	188,218	13,195	150,484	411,462
(b) Sales at wholesale of energy for distribution solely in state	148,516	76	52,185	3,267	66,677	1,424	—	—	390	11,038	11,929
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state											
(1) To an associate company —firm power	—	—	—	—	—	—	—	—	—	—	—
(2) To an associate company —non-firm power	—	—	—	—	161,269	—	—	—	—	—	—
(3) To a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(4) To a non-associate company—non-firm power	109,512	—	82,935	—	—	—	—	—	—	—	—
(d) Uses and losses in company's own system	171,529	10,435	141,167	32,052	—	12,823	201	26,942	3,437	26,937	58,864
Total within state	1,586,130	143,939	568,366	105,316	227,946	98,138	1,424	215,160	17,022	188,459	482,255
2. Transfers out of state across a state boundary by company over its own facilities for its own account	—	—	18,580	83,738	—	—	—	—	—	—	—
3. Sales at or across a state boundary											
(a) To an associate company —firm power	—	—	31,080	—	—	—	—	—	—	842	—
(b) To an associate company —non-firm power	—	—	183,822	—	—	—	—	—	—	143	—
(c) To a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	26,478	—	2,018	—	—	—	—	—	—	—	—
Total sales at or across a state boundary	26,478	—	216,920	—	—	—	—	—	—	985	—
TOTAL DELIVERIES	1,612,608	143,939	803,866	189,054	227,946	98,138	1,424	215,160	17,022	189,444	482,255
ENERGY SOURCES											
4. Within state in which company does business											
(a) Generation by company	1,265,723	3,880	620,863	—	—	381	—	—	5,984	189,443	461,330
(b) Purchases of energy generated solely in state	230,611	140,059	91,542	170,474	—	—	—	215,160	11,038	1	20,925
(c) Purchases of energy which may in part be commingled with energy generated outside of state											
(1) From an associate company —firm power	—	—	—	—	—	66,677	1,424	—	—	—	—
(2) From an associate company —non-firm power	—	—	—	—	4,207	—	—	—	—	—	—
(3) From a non-associate company—firm power	13,922	—	—	—	—	—	—	—	—	—	—
(4) From a non-associate company—non-firm power	84,038	—	—	—	223,739	—	—	—	—	—	—
Total within state	1,594,294	143,939	712,405	170,474	227,946	67,058	1,424	215,160	17,022	189,444	482,255
5. Transfers into state across a state boundary by company over its own facilities for its own account	—	—	83,738	18,580	—	—	—	—	—	—	—
6. Purchases at or across a state boundary											
(a) From an associate company —firm power	—	—	—	—	—	31,080	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	7,723	—	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	1,990	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	16,324	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	18,314	—	7,723	—	—	31,080	—	—	—	—	—
TOTAL SOURCES	1,612,608	143,939	803,866	189,054	227,946	98,138	1,424	215,160	17,022	189,444	482,255

Exhibit 111

5986

5987

TABLE A—SHEET 8

(opposite page)

5988

Exhibit 111 (Continued)

TABLE A—SHEET 8

AUXILIARY TRANSFERS TO OR FROM STATE BOUNDARIES FOR ACCOUNT OF OTHERS
IN CONNECTION WITH TRANSACTIONS ACROSS STATE BOUNDARIES LISTED ON PRECEDING PAGES OF TABLE A
YEAR 1934

Company over whose lines the auxiliary transfer is made	Primary transaction listed in Table A as: (1) Sale across a boundary by:	(2) Purchase across a boundary by:	Energy transferred M kwh	Transferred from	Transferred to	Subsequent boundary crossings in transit
AMERICAN COMPANY GROUP						
Northern Power Co	Minnesota P & L Co	Superior W L & P Co	12,610	Minn-Wisc boundary	Points in Wisc	0
Citizens Power & Light Co	Nebraska Pr Co	Non-associate	4,790	Neb-Iowa boundary	Point in Iowa	0
Total Group			17,400			
ELECTRIC COMPANY GROUP						
Arkansas Power & Light Co	Louisiana P & L Co	Mississippi P & L Co	72,586	La-Ark boundary	Ark-Miss boundary	1
" " "	" "	" "	2,089	La-Ark boundary	Ark-Tenn boundary	1
Mississippi Power & Light Co	" "	Arkansas P & L Co	18,858	Ark-Miss boundary	Miss-Tenn boundary	1
Total Group			93,533			
NATIONAL COMPANY GROUP						
Memphis Power & Light Co	Arkansas P & L Co	Louisiana P & L Co	1,230	Ark-Tenn boundary	Tenn-Miss boundary	1
" " "	Louisiana P & L Co	Mississippi P & L Co	2,089**	Ark-Tenn boundary	Tenn-Miss boundary	1
" " "	" "	Arkansas P & L Co	18,858**	Miss-Tenn boundary	Tenn-Ark boundary	1
Tennessee Public Service Co	Carolina P & L Co	Appalachian E P Co	147,054	N C-Tenn boundary	Point in Tenn	0
" " "	" "	Non-associate	2,018	N C-Tenn boundary	Point in Tenn	0
Total Group			171,249			

Total Three Groups—Energy involved in auxiliary transfers (duplications eliminated) 261,235

—Energy involved in a second boundary crossing in transit after first sale across a boundary 94,763 *

* Of this 94,763 *Mkwh, 20,947 Mkwh were included in a third boundary crossing in transit.

** Continuation through a second state of a transfer shown above in the same amount

Exhibit 111

5992

5993

TABLE A—SHEET 8A

(opposite page)

5994

Exhibit 111 (Continued)

TABLE A—SHEET 8A

IDENTIFIABLE LOOP TRANSFERS BETWEEN POINTS IN SAME STATE THROUGH ANOTHER STATE
NOT LISTED ON PRECEDING PAGES OF TABLE A—YEAR 1934

Company over whose lines loop transfer is made	Company for whose account transfer is made	Energy transferred M kwh	Transferred from and to	Transferred through	Boundary crossings by loop
AMERICAN COMPANY GROUP					
Northwestern Electric Co	Self	964*	Washington	Oregon	2
Washington Water Power Co	Self	28,795*	Idaho & Washington	Washington & Idaho	2
Total Group		29,759			
ELECTRIC COMPANY GROUP					
Arkansas Power & Light Co	Louisiana P & L Co	4,499	Louisiana	Arkansas	2
Louisiana Power & Light Co	Arkansas P & L Co	1,140	Arkansas	Louisiana	2
" " "	" "	13*	"	"	2
" " "	Mississippi P & L Co	193*	Mississippi	Louisiana	2
Mississippi Power & Light Co.	Louisiana P & L Co	48,627*	Louisiana	Mississippi	2
Total Group		54,472			
NATIONAL COMPANY GROUP					
Roanoke River Power Co	Carolina P & L Co	78,101*	N Carolina	Virginia	2
Tennessee Public Service Co #	Carolina P & L Co	4,014	N Carolina	Tennessee-Virginia	3
Total Group		82,115			
Total Three Groups—Amount of identifiable loop transfers		166,346*			

 # These loop transfers also involved use of lines of Appalachian Electric Power Co.

*** In these instances, totaling 156,693 M kwh, the same energy which passed out of the state over the loop was all looped back into the state. In the remaining instances, totaling 9,653 M kwh, an equivalent amount was looped back into the state, with possible commingling in transit outside of the state.**

Exhibit 111

5998

5999

TABLE A—SHEET 9

(opposite page)

6000

Exhibit 111 (Continued)

AMERICAN GAS GROUP

SUMMARY OF ENERGY SOURCES AND DELIVERIES
YEAR 1934

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business:					
(a) Sales to ultimate consumers	515,479	198,287	1,966,348	2,680,114	
(b) Sales to other electric companies or municipalities in the state:					
Energy which does not cross a state boundary	5,328	794	518,787	524,909	
Energy a part of which may cross a state boundary					
Associate —Firm Power	—	—	89,087	89,087	
" —Non-Firm Power	—	—	31,816	31,816	
Non-Associate—Non-Firm Power	63	—	—	63	
Total Sales in State	520,870	199,081	2,606,038	3,325,989	60.6
2. Deliveries in the state under interchange agreements	—	—	110,309	110,309	
3. Uses and Losses	87,203	11,023	358,678	456,904	
Total for State	608,073	210,104	3,075,025	3,893,202	
4. Transfers across state boundary by company over its own facilities for its own account	—	—	1,039,917	1,039,917	16.2
5. Transfers across a state boundary for others	—	—	349,220	349,220	5.5
6. Delivery of energy brought across a state boundary for others	—	—	349,220	349,220	5.5
7. Sales at state boundary:			(40,807) *	(40,807) *	
(a) Associate Co. —firm power	—	2	99,610	99,612	
(b) " " —non-firm power	—	—	652,624	652,624	
(c) Non-Associate Co.—firm power	—	—	8,110	8,110	
(d) " " Co.—non-firm power	—	—	—	—	
Total Sales at State boundary	—	2	760,344	760,346	11.8

Exhibit 111

6004

TABLE A—SHEET 9—*Continued*

6005

(opposite page)

6006

TABLE A—SHEET 9 (Continued)

Exhibit 111 (Continued)

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
8. Deliveries at state boundary under interchange agreements	—	6,036	18,328	24,364	0.4
Total	608,073	216,142	5,592,054	6,416,269	100.0
ENERGY SOURCES					
9. Within state in which company does business:	463,527	37,873	2,675,710	3,177,110	
(a) Generation					
(b) Purchase from a company in the state: Energy which probably originated in the state and none of which is exported	651	—	20,241	20,892	
Energy a part of which may have crossed a state boundary or which may be exported across a state boundary:					
Associate —Firm Power	143,861	—	89,087	232,948	
" —Non-Firm Power	—	31,816	—	31,816	
Non-Associate—Non-Firm Power	34	—	—	34	
Tennessee Pub. Serv. Co.— Non Firm	—	—	308,121	308,121	
(c) Generation for others	—	—	340,276	340,276	
10. Receipts in the state under interchange agreements	—	—	112,785	112,785	
Total for State	608,073	69,689	3,546,220	4,223,982	65.8
11. Transfers across state boundary by company over its own facilities for its own account	—	—	1,039,917	1,039,917	16.2
12. Transfers across a state boundary for others	—	—	349,220	349,220	5.5

Exhibit 111

6010

TABLE A—SHEET 9—*Continued*

6011

(opposite page)

6012

Exhibit 111 (Continued)

TABLE A—SHEET 9—*Continued*

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
13. Purchases at state boundary:					
(a) Associate Co. —firm power	—	140,417	2 (40,807)*	140,419 (40,807)*	
(b) " " —non-firm power	—	—	611,817	611,817	
(c) Non-Associate Co.—firm power	—	—	—	—	
(d) " " Co.—non-firm power	—	—	1,510	1,510	
(e) Carolina Power & Light Co.— non-firm power	—	—	25,040	25,040	
Total Purchases at State Boundary	—	140,417	638,369	778,786	12.1
14. Receipts at state boundary under interchange agreements	—	6,036	18,328	24,364	0.4
Total from All Sources	608,073	216,142	5,592,054	6,416,269	100.0

* Energy delivered Ohio to Kentucky, not through West Virginia and therefore not carried into totals for West Virginia. Properly shown in Ohio and Kentucky.

Exhibit 111

6016

TABLE A—SHEET 10

6017

(opposite page)

6018

Exhibit 111 (Continued)

TABL

AMERICAN GAS GROUP
ENERGY SOURCES AND DELIVERIES
YEAR 1934

ENERGY DELIVERIES	Atlantic City Elec. Co. M. KWH	The Scranton Elec. Co. M. KWH	Indiana General Serv. Co. M. KWH	Ky. and W. Va. Pr. Co., Inc. M. KWH	Kingsport Utilities, Inc. M. KWH	The Ohio Power Co. Gen. in W. Va. M. KWH	The Ohio Power Co. Ohio M. KWH	Wheeling Elec. Co. Ohio M. KWH	Wheeling Elec. Co. W. Va. M. KWH	Appalachian Elect W. Va. M. KWH	Appalachian Elect Va. M. K
1. Within State in which company does business:											
(a) Sales to ultimate consumers	162,832	225,687	126,960	170,392	27,895	—	691,246	8,157	73,327	800,414	248,
(b) Sales to other electric companies or municipalities in the state:											
Energy which does not cross a state boundary	2,438	1,375	1,515	794	—	—	204,229	—	—	9,276	3,
Energy a part of which may cross a state boundary:											
Associate —Firm Power	—	—	—	—	—	89,087	—	—	—	—	
Associate —Non Firm Power	—	—	—	—	—	—	—	—	—	—	
Non-Associate—Non Firm Power	—	63	—	—	—	—	—	—	—	—	
Total Sales in State	165,270	227,125	128,475	171,186	27,895	89,087	895,475	8,157	73,327	809,690	252,
2. Deliveries in the state under interchange agreements—Non Associate	—	—	—	—	—	—	41,236	—	—	—	
3. Uses and Losses	38,968	30,769	17,466	7,104	3,919	—	154,056	2,350	15,100	80,538	67
Total for State	204,238	257,894	145,941	178,290	31,814	89,087	1,090,767	10,507	88,427	890,228	319
4. Transfers across state boundary by company over its own facilities for its own account	—	—	—	—	—	16,709	—	—	1,881	125,208	532
5. Transfers across a state boundary for others	—	—	—	—	—	349,220	—	—	—	—	
6. Delivery of energy brought across a state boundary for others	—	—	—	—	—	—	349,220	—	--	—	
7. Sales at state boundary:											
(a) Associate Co. —firm power	—	—	—	—	2	—	—	—	—	(40,807)* 91,125	8
(b) " " —non-firm power	—	—	—	—	—	—	488,992	—	—	163,500	
(c) Non-Associate Co.—firm power	—	—	—	—	—	—	—	—	—	—	
(d) " " Co.—non-firm power	—	—	—	—	—	—	—	—	—	—	
Total Sales at State Boundary	—	—	—	—	2	—	488,992	—	—	254,625	8
8. Deliveries at state boundary under interchange agreements { Non Associate	—	—	—	—	—	—	573	—	—	—	11
8. Deliveries at state boundary under interchange agreements { Associate	—	—	—	6,036	—	—	—	—	—	5,121	
Total	204,238	257,894	145,941	184,326	31,816	455,016	1,929,552	10,507	90,308	1,275,182	87

TABLE A—SHEET 10

palachian Electric Power Co.		Ind. & Mich. Elec. Co.	
Va. M. KWH	Tenn. M. KWH	Mich. M. KWH	Ind. M. KWH
248,490	—	47,882	96,832
3,832	—	9,126	292,324
—	—	—	—
—	31,816	—	—
—	—	—	—
252,322	31,816	57,008	389,156
—	4,212†	—	64,861
67,253	—	9,919	29,462
319,575	36,028	66,927	483,479
532,255	312,333	9,036	42,495
—	—	—	—
—	—	—	—
8,485	—	—	—
—	—	—	132
—	—	—	8,110
—	—	—	—
8,485	—	—	8,242
11,732x	—	—	—
902	—	—	—
872,949	348,361	75,963	534,216

Exhibit 111

6025

6023 TABLE A—SHEET 10—*Continued*

(opposite page)

6024

Exhibit III (Cont.) 2009

AMERICAN GAS GROUP
ENERGY SOURCES AND DELIVERIES
YEAR 1934

	Atlantic City Elec. Co. M. KWH	The Scranton Elec. Co. M. KWH	Indiana General Serv. Co. M. KWH	Ky. and W. Va. Pr. Co., Inc. M. KWH	Kingsport Utilities, Inc. M. KWH	The Ohio Power Co. Gen. in W. Va. M. KWH	The Ohio Power Co. Ohio M. KWH	Wheeling Elec. Co. Ohio M. KWH	Wheeling Elec. Co. W. Va. M. KWH	Appalachian El W. Va. M. KWH	Appalachian El M.
9. Within state in which company does business:											
(a) Generation	204,238	257,218	2,071	37,873	—	105,796	1,354,108	—	1,221	694,984	38
(b) Purchase from a company in state:											
Energy which probably originated in the state and none of which is exported	—	642	9	—	—	—	2,550	8,626	—	—	
Energy a part of which may have crossed a state boundary or which may be exported across a state boundary:											
Associate —Firm Power	—	—	143,861	—	—	—	—	—	89,087	—	
Associate —Non-Firm	—	—	—	—	31,816	—	—	—	—	—	
Non-Associate—Non-Firm	—	34	—	—	—	—	—	—	—	—	
Tennessee Pub. Serv. Co.— Non Firm	—	—	—	—	—	—	—	—	—	—	
(c) Generation for others	—	—	—	—	—	340,276	—	—	—	—	
10. Receipts in the state under interchange agreements—Non Associate	—	—	—	—	—	8,944	41,236	—	—	—	
Total for State	204,238	257,894	145,941	37,873	31,816	455,016	1,397,894	8,626	90,308	694,984	3
11. Transfers across state boundary by company over its own facilities for its own account	—	—	—	—	—	—	16,709	1,881	—	496,227	4
12. Transfers across a state boundary for others	—	—	—	—	—	—	349,220	—	—	—	
13. Purchases at state boundary:											
(a) Associate Co. —firm power	—	—	—	140,417	—	—	—	—	—	—	
(b) " " —non-firm power	—	—	—	—	—	—	163,646	—	—	(40,807) * 78,850	
(c) Non-Associate Co.—firm power	—	—	—	—	—	—	—	—	—	—	
(d) " " Co.—non-firm power	—	—	—	—	—	—	1,510	—	—	—	
(e) Carolina Power & Light Co.— non-firm power	—	—	—	—	—	—	—	—	—	—	
Total Purchases at State Boundary	—	—	—	140,417	—	—	165,156	—	—	78,850	
14. Receipts at state boundary under interchange agreements {Non-Associate						—	573	—	—	—	
{Associate	—	—	—	6,036	—	—	—	—	—	5,121	
Total from All Sources	204,238	257,894	145,941	184,326	31,816	455,016	1,929,552	10,507	90,308	1,275,182	8

* Energy delivered Ohio to Kentucky, not through West Virginia and therefore not carried into totals for West Virginia. Energy is shown in Ohio and Kentucky.

† Tennessee Public Service Co.

x Carolina Power & Light Co.

TABLE A—SHEET 10—*Continued*

alachian Electric Power Co.		Ind. & Mich. Elec. Co.	
Va. M. KWH	Tenn. M. KWH	Mich. M. KWH	Ind. M. KWH
388,960	—	33,468	97,173
8,772	—	—	293
—	—	—	—
—	—	—	—
—	—	—	—
—	308,121	—	—
—	—	—	—
—	4,212†	—	58,393
397,732	312,333	33,468	155,859
437,541	36,028	42,495	9,036
—	—	—	—
2	—	—	—
—	—	—	369,321
—	—	—	—
—	—	—	—
25,040	—	—	—
25,042	—	—	369,321
11,732x	—	—	—
902	—	—	—
872,949	348,361	75,963	534,216

Exhibit 111

6028

TABLE A—SHEET 11

6029

(opposite page)

6030

Exhibit 111 (Continued)

ENERGY DELIVERIES AND SOURCES—YEAR 1934

American Company Group, Electric Company Group, National Company Group, and American Gas Group, Combined

	Subtotal — Properties in one state with no transactions across state boundaries Mkwh	Subtotal — Properties in one state with transactions across state boundaries Mkwh	Subtotal — Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY DELIVERIES					
1. Within state in which company does business					
(a) Sales to ultimate consumers	2,524,608	2,648,514	*4,998,110	*10,171,232	
(b) Sales at wholesale of energy for distribution solely in state	219,426	197,892	814,480	1,231,798	
(c) Sales at wholesale of energy which may in part go outside state after commingling with other energy generated in state					
(1) To an associate company —firm power	65,700	—	163,547	229,247	
(2) To an associate company —non-firm power	117,725	—	268,975	386,700	
(3) To a non-associate company—firm power	—	35,339	4,940	40,279	
(4) To a non-associate company—non-firm power	1,524	109,512	105,181	216,217	
(d) Uses and losses in company's own system	488,577	439,496	1,112,838	2,040,911	
Total within state	3,417,560	3,430,753	7,468,071	14,316,384	80.2
2. Transfers out of state across a state boundary by company over its own facilities:—for its own account	—	—	1,513,279	1,513,279	8.5
—for account of others	—	—	349,220	349,220	2.0
3. Sales at or across a state boundary					
(a) To an associate company —firm power	—	198,919	324,634	523,553	
(b) To an associate company —non-firm power	—	230,870	858,091	1,088,961	
(c) To a non-associate company—firm power	—	550	11,148	11,698	
(d) To a non-associate company—non-firm power	—	30,900	7,979	38,879	
Total sales at or across a state boundary	—	461,239	1,201,852	1,663,091	9.3
TOTAL DELIVERIES	3,417,560	3,891,992	10,532,422	17,841,974	100.00

* Includes 349,220 Mkwh of energy delivered for account of lessees.

Exhibit 111

6034

TABLE A—SHEET 11—*Continued*

6035

(opposite page)

6036

Exhibit 111 (Continued)

	Subtotal Properties in one state with no transactions across state boundaries Mkwh	Subtotal Properties in one state with transactions across state boundaries Mkwh	Subtotal Properties in two or more states and across state boundaries Mkwh	GRAND TOTAL Mkwh	%
ENERGY SOURCES					
4. Within state in which company does business					
(a) Generation by company	2,674,934	2,783,856	*6,357,707	*11,816,497	
(b) Purchases of energy generated solely in state	590,145	292,085	777,158	1,659,388	
(c) Purchases of energy which may in part be commingled with energy generated outside of state					
(1) From an associate company —firm power	146,209	66,677	89,211	302,097	
(2) From an associate company —non-firm power	55	31,816	208,791	240,662	
(3) From a non-associate company—firm power	6,183	13,922	—	20,105	
(4) From a non-associate company—non-firm power	34	84,038	223,740	307,812	
Total within state	3,417,560	3,272,394	7,656,607	14,346,561	80.3
5. Transfers into state across a state boundary by company over its own facilities:—for its own account	—	—	1,513,279	1,513,279	8.5
—for account of others	—	—	349,220	349,220	2.0
6. Purchases at or across a state boundary					
(a) From an associate company —firm power	—	370,414	153,139	523,553	
(b) From an associate company —non-firm power	—	230,870	858,091	1,088,961	
(c) From a non-associate company—firm power	—	1,990	—	1,990	
(d) From a non-associate company—non-firm power	—	16,324	2,086	18,410	
Total sales at or across a state boundary	—	619,598	1,013,316	1,632,914	9.2
TOTAL SOURCES	3,417,560	3,891,992	10,532,422	17,841,974	100.0

* Includes 340,276 M kwh of energy generated for account of lessees.

General Notes:—1. This Sheet 11 is not a direct total, item by item, of the corresponding sheets for the constituent groups. To obtain overall consistency and avoid undue complexity, energy deliveries and receipts under interchange arrangements are here included in energy sales and purchases, certain minor reclassifications are made of purchases and transfers between groups, and certain minor identifiable duplications between groups are eliminated.

2. To avoid undue complexity in this tabulation, transactions between subsidiaries of any of the four holding companies are listed as transactions with "associate" companies, although defendants do not concede that a subsidiary of one holding company can properly be considered an associate of a subsidiary of one of the other three holding companies.

Exhibit 111

6040

TABLE A—SHEET 12

6041

(opposite page)

6042

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

American Company Group, Electric Company Group and National Company Group Combined

	Subtotal — Properties in one state with no transactions across state boundaries	Subtotal — Properties in one state with transactions across state boundaries	Subtotal — Properties in two or more states and across state boundaries	GRAND TOTAL	
	$	$	$	$	%
1. Electric revenues from sales within state other than sales across a state boundary					
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	56,721,567	57,792,894	45,162,637	159,677,098	
(b) From sales to electric utilities doing business in state	2,355,210	1,657,657	1,581,495	5,594,362	
Total electric revenues from sales within state	59,076,777	59,450,551	46,744,132	165,271,460	98.0
2. Revenues from energy transfers for others to or from a state boundary (in all cases for account of an associate)	—	121,671	—	121,671	0.1
3. Revenues from energy sales at or across a state boundary					
(a) To an associate company —firm power	—	1,506,349	556,843	2,063,192	
(b) To an associate company —non-firm power	—	809,337	252,126	1,061,463	
(c) To a non-associate company—firm power	—	8,653	29,623	38,276	
(d) To a non-associate company—non-firm power	—	91,320	16,154	107,474	
Total from energy sales at or across a state boundary	—	2,415,659	854,746	3,270,405	1.9
Total Electric Operating Revenues	59,076,777	61,987,881	47,598,878	168,663,536	100.0
4. Purchase price of energy purchased at or across a state boundary					
(a) From an associate company —firm power	—	1,698,113	365,079	2,063,192	
(b) From an associate company —non-firm power	—	809,337	116,190	925,527	
(c) From a non-associate company—firm power	—	6,902	—	6,902	
(d) From a non-associate company—non-firm power	—	46,161	—	46,161	
Total purchases at or across a state boundary	—	2,560,513	481,269	3,041,782	

Exhibit 111

6046

TABLE A—SHEET 13

6047

(opposite page)

6048

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

American Company Group Combined

	Subtotal Properties in one state with no transactions across state boundaries	Subtotal Properties in one state with transactions across state boundaries	Subtotal Properties in two or more states and across state boundaries	GRAND TOTAL	
	$	$	$	$	%
1. Electric revenues from sales within state other than sales across a state boundary					
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	26,927,282	12,222,963	25,440,002	64,590,247	
(b) From sales to electric utilities doing business in state	1,175,415	385,794	852,357	2,413,566	
Total electric revenues from sales within state	28,102,697	12,608,757	26,292,359	67,003,813	98.8
2. Revenues from energy transfers for others to or from a state boundary (in all cases for account of an associate)	—	10,790	—	10,790	—
3. Revenues from energy sales at or across a state boundary					
(a) To an associate company —firm power	—	693,791	—	693,791	
(b) To an associate company —non-firm power	—	7,543	420	7,963	
(c) To a non-associate company—firm power	—	3,092	3,402	6,494	
(d) To a non-associate company—non-firm power	—	28,743	16,154	44,897	
Total from energy sales at or across a state boundary	—	733,169	19,976	753,145	1.2
Total Electric Operating Revenues	28,102,697	13,352,716	26,312,335	67,767,748	100.0
4. Purchase price of energy purchased at or across a state boundary					
(a) From an associate company —firm power	—	693,791	—	693,791	
(b) From an associate company —non-firm power	—	7,543	420	7,963	
(c) From a non-associate company—firm power	—	—	—	—	
(d) From a non-associate company—non-firm power	—	—	—	—	
Total purchases at or across a state boundary	—	701,334	420	701,754	

Exhibit 111

6052

TABLE A—SHEET 14

6053

(opposite page)

6054

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

American Company Group

	Northwestern Elec Co		Pacific Power & Light Co			Inland P & L Co		Washi
	Washington	Oregon	Main System Washington	Main System Oregon	Isolated Oregon	Washington	Oregon	Washing
	$	$	$	$	$	$	$	$
1. Electric revenues from sales within state other than sales across a state boundary								
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	866,569	2,312,182	2,356,249	943,978	651,055	2,228	—	4,734,33
(b) From sales to electric utilities doing business in state	10,147	51,678	89,599	18,656	2,305	541,013	19,800	518,23
Total electric revenues from sales within state	876,716	2,363,860	2,445,848	962,634	653,360	543,241	19,800	5,252,56
2. Revenues from energy transfers for others to or from a state boundary	—	—	—	—	—	—	—	—
3. Revenues from energy sales at or across a state boundary								
(a) To an associate company —firm power	—	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	—	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	—	—	—	—	—	—	—	3,40
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	16,15
Total from energy sales at or across a state boundary	—	—	—	—	—	—	—	19,55
Total Electric Operating Revenues	876,716	2,363,860	2,445,848	962,634	653,360	543,241	19,800	5,272,12
4. Purchase price of energy purchased at or across a state boundary								
(a) From an associate company —firm power	—	—	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	—	—	—	—	—	—	—

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Washington Wr Pr Co		Montana Power Co		Minnesota & Light Co Power :	Northern Power Co	Superior Wr, Lt and Pr Co
Washington	Idaho	Idaho	Montana			
$	$	$	$	$	$	$
4,734,330	1,448,053	111,994	7,524,301	4,557,748	306,152	496,752
518,236	41,283	—	17,143	276,427	—	4,082
5,252,566	1,489,336	111,994	7,541,444	4,834,175	306,152	500,834
—	—	—	—	—	6,000	—
—	—	—	—	410,839	—	—
—	—	—	420	7,543	—	—
3,402	—	—	—	1,412	—	—
16,154	—	—	—		—	—
19,556	—	—	420	419,794	—	—
5,272,122	1,489,336	111,994	7,541,864	5,253,969	312,152	500,834
—	—	—	—	—	266,947	143,892
—	420	—	—	—	—	7,543
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	420	—	—	—	266,947	151,435

Exhibit 111

6058

TABLE A—SHEET 14—*Continued*

6059

(opposite page)

6060

Exhibit 111 (Continued) TABLE A—SHEET 14—*Continued*

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

American Company Group

	Nebraska Power Co	Citizens P & L Co	Kansas G and E Co: Kansas	Kansas G and E Co: Missouri	Central Arizona L & P Co	New Mexico Electric Service	Texas Electric Service Co: Except Eagle Pass	Texas Electric Service Co: Eagle Pass Texas	Texas Electric Service Co: Eagle Pass Mexico	Texas P & L Co	Texas P U Corp	Florida P & L Co
	$	$	$	$	$	$	$	$	$	$	$	$
1. Electric revenues from sales within state other than sales across a state boundary												
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	6,048,111	814,263	4,935,028	84,102	2,209,328	86,594	6,197,200	83,118	40,035	8,677,696	74,839	9,028,342
(b) From sales to electric utilities doing business in state	105,285	—	105,615	—	—	—	185,520	—	—	422,527	—	4,250
Total electric revenues from sales within state	6,153,396	814,263	5,040,643	84,102	2,209,328	86,594	6,382,720	83,118	40,035	9,100,223	74,839	9,032,592
2. Revenues from energy transfers for others to or from a state boundary (in all cases for account of an associate)	—	4,790	—	—	—	—	—	—	—	—	—	—
3. Revenues from energy sales at or across a state boundary												
(a) To an associate company —firm power	282,952	—	—	—	—	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	1,680	—	—	—	—	—	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	28,743	—	—	—	—	—	—	—	—	—	—	—
Total from energy sales at or across a state boundary	313,375	—	—	—	—	—	—	—	—	—	—	—
Total Electric Operating Revenues	6,466,771	819,053	5,040,643	84,102	2,209,328	86,594	6,382,720	83,118	40,035	9,100,223	74,839	9,032,592
4. Purchase price of energy purchased at or across a state boundary												
(a) From an associate company —firm power	—	282,952	—	—	—	—	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	282,952	—	—	—	—	—	—	—	—	—	—

Exhibit 111

6064

TABLE A—SHEET 15

6065

(opposite page)

6066

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

Electric Company Group Combined

	Subtotal Properties in one state with no transactions across state boundaries	Subtotal Properties in one state with transactions across state boundaries	Subtotal Properties in two or more states and across state boundaries	GRAND TOTAL	
	$	$	$	$	%
1. Electric revenues from sales within state other than sales across a state boundary					
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	13,095,136	11,804,338	11,833,774	36,733,248	
(b) From sales to electric utilities doing business in state	500,769	438,489	210,419	1,149,677	
Total electric revenues from sales within state	13,595,905	12,242,827	12,044,193	37,882,925	94.7
2. Revenues from energy transfers for others to or from a state boundary (in all cases for account of an associate)	—	—	—	—	—
3. Revenues from energy sales at or across a state boundary					
(a) To an associate company —firm power	—	798,246	365,079	1,163,325	
(b) To an associate company —non-firm power	—	801,183	115,770	916,953	
(c) To a non-associate company—firm power	—	5,561	26,221	31,782	
(d) To a non-associate company—non-firm power	—	—	—	—	
Total from energy sales at or across a state boundary	—	1,604,990	507,070	2,112,060	5.3
Total Electric Operating Revenues	13,595,905	13,847,817	12,551,263	39,994,985	100.0
4. Purchase price of energy purchased at or across a state boundary					
(a) From an associate company —firm power	—	722,558	365,079	1,087,637	
(b) From an associate company —non-firm power	—	801,794	115,770	917,564	
(c) From a non-associate company—firm power	—	—	—	—	
(d) From a non-associate company—non-firm power	—	—	—	—	
Total purchases at or across a state boundary	—	1,524,352	480,849	2,005,201	

Exhibit 111

6070

TABLE A—SHEET 16

6071

(opposite page)

6072

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

Electric Company Group

	IDAHO POWER CO				UTAH POWER & LIGHT CO						
	Main System Idaho	Isolated Salmon Idaho	Main System Oregon	Main System Nevada	Main System Utah	Isolated Utah	Main System Idaho	Main System Wyoming	Isolated Wyoming	Western Colorado Power Co	Bountiful L & P Co
	$	$	$	$	$	$	$	$	$	$	$
1. Electric revenues from sales within state other than sales across a state boundary											
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	3,191,400	28,763	316,738	17,157	7,499,137	35,000	735,003	74,339	66,000	465,971	38,319
(b) From sales to electric utilities doing business in state	67,610	—	—	—	125,939	—	16,870	—	—	22,451	—
Total electric revenues from sales within state	3,259,010	28,763	316,738	17,157	7,625,076	35,000	751,873	74,339	66,000	488,422	38,319
2. Revenues from energy transfers for others to or from a state boundary	—	—	—	—	—	—	—	—	—	—	—
3. Revenues from energy sales at or across a state boundary											
(a) To an associate company —firm power	365,079	—	—	—	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	115,770	—	—	—	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	26,221	—	—	—	—	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
Total from energy sales at or across a state boundary	507,070	—	—	—	—	—	—	—	—	—	—
Total Electric Operating Revenues	3,766,080	28,763	316,738	17,157	7,625,076	35,000	751,873	74,339	66,000	488,422	38,319
4. Purchase price of energy purchased at or across a state boundary											
(a) From an associate company —firm power	—	—	—	—	365,079	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	115,770	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	—	—	—	—	480,849	—	—	—	—	—	—

Exhibit 111

6076

TABLE A—SHEET 16—*Continued*

6077

(opposite page)

6078

Exhibit 111 (Continued) TABLE A—SHEET 16 —*Continued*

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

Electric Company Group

	Arkansas P & L Co		Louisiana P & L Co		Mississippi Power & Light Co				P S Inc	Dallas
	Main	Isolated	Main	Isolated	Main	Natchez	Northern	Isolated	New Orleans	P & L Co
	$	$	$	$	$	$	$	$	$	$
1. Electric revenues from sales within state other than sales across a state boundary										
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	5,319,823	137,194	2,884,325	49,619	3,386,329	182,461	31,400	42,000	7,021,748	5,210,522
(b) From sales to electric utilities doing business in state	357,528	—	77,722	—	3,239	—	—	1,080	470,217	7,021
Total electric revenues from sales within state	5,677,351	137,194	2,962,047	49,619	3,389,568	182,461	31,400	43,080	7,491,965	5,217,543
2. Revenues from energy transfers for others to or from a state boundary	—	—	—	—	—	—	—	—	—	—
3. Revenues from energy sales at or across a state boundary										
(a) To an associate company —firm power	*90,000	—	708,246	—	—	—	—	—	—	—
(b) To an associate company —non-firm power	9,546	—	791,637	—	—	—	—	—	—	—
(c) To a non-associate company—firm power	—	—	—	—	—	5,561	—	—	—	—
(d) To a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
Total from energy sales at or across a state boundary	99,546	—	1,499,883	—	—	5,561	—	—	—	—
Total Electric Operating Revenues	5,776,897	137,194	4,461,930	49,619	3,389,568	188,022	31,400	43,080	7,491,965	5,217,543
4. Purchase price of energy purchased at or across a state boundary										
(a) From an associate company —firm power	—	—	—	—	708,246	—	14,312	—	—	—
(b) From an associate company —non-firm power	792,248	—	9,546	—	—	—	—	—	—	—
(c) From a non-associate company—firm power	—	—	—	—	—	—	—	—	—	—
(d) From a non-associate company—non-firm power	—	—	—	—	—	—	—	—	—	—
Total purchases at or across a state boundary	792,248	—	9,546	—	708,246	—	14,312	—	—	—

* For standby service.

Exhibit 111

6082

TABLE A—SHEET 17

6083

(opposite page)

6084

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

National Company Group Combined

	Subtotal — Properties in one state with no transactions across state boundaries	Subtotal — Properties in one state with transactions across state boundaries	Subtotal — Properties in two or more states and across state boundaries	GRAND TOTAL	
	$	$	$	$	%
1. Electric revenues from sales within state other than sales across a state boundary					
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	16,699,149	33,765,593	7,888,861	58,353,603	
(b) From sales to electric utilities doing business in state	679,026	833,374	518,719	2,031,119	
Total electric revenues from sales within state	17,378,175	34,598,967	8,407,580	60,384,722	99.1
2. Revenues from energy transfers for others to or from a state boundary (in all cases for account of an associate)	—	110,881	—	110,881	0.2
3. Revenues from energy sales at or across a state boundary					
(a) To an associate company —firm power	—	14,312	191,764	206,076	
(b) To an associate company —non-firm power	—	611	135,936	136,547	
(c) To a non-associate company—firm power	—	—	—	—	—
(d) To a non-associate company—non-firm power	—	62,577	—	62,577	
Total from energy sales at or across a state boundary	—	77,500	327,700	405,200	0.7
Total Electric Operating Revenues	17,378,175	34,787,348	8,735,280	60,900,803	100.0
4. Purchase price of energy purchased at or across a state boundary					
(a) From an associate company —firm power	—	281,764	—	281,764	
(b) From an associate company —non-firm power	—	—	—	—	—
(c) From a non-associate company—firm power	—	6,902	—	6,902	
(d) From a non-associate company—non-firm power	—	46,161	—	46,161	
Total purchases at or across a state boundary	—	334,827	—	334,827	

Exhibit 111

6088

6089

TABLE A—SHEET 18

(opposite page)

6090

Exhibit 111 (Continued)

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

Showing Revenues from Energy Sales At or Across State Boundaries and Purchase Price of Energy Purchased At or Across State Boundaries

National Company Group

	Pennsylvania P & L Co		Carolina Power & Light Company			Roanoke River
	Main	Isolated	No Carolina	So Carolina	Tenn a/c	Power Co
	$	$	$	$	$	$
1. Electric revenues from sales within state other than sales across a state boundary						
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	27,627,892	3,923,038	6,192,794	1,696,067	—	—
(b) From sales to electric utilities doing business in state	**589,330	502	472,907	45,812	556,920	—
Total electric revenues from sales within state	28,217,222	3,923,540	6,665,701	1,741,879	556,920	—
2. Revenues from energy transfers for others to or from a state boundary	—	—	—	—	—	†10,829
3. Revenues from energy sales at or across a state boundary						
(a) To an associate company —firm power	—	—	191,764	—	—	—
(b) To an associate company —non-firm power	—	—	135,936	—	—	—
(c) To a non-associate company—firm power	—	—	—	—	—	—
(d) To a non-associate company—non-firm power	*62,577	—	—	—	—	—
Total from energy sales at or across a state boundary	62,577	—	327,700	—	—	—
Total Electric Operating Revenues	28,279,799	3,923,540	6,993,401	1,741,879	556,920	10,829
4. Purchase price of energy purchased at or across a state boundary						
(a) From an associate company —firm power	—	—	—	—	—	—
(b) From an associate company —non-firm power	—	—	—	—	—	—
(c) From a non-associate company—firm power	6,902	—	—	—	—	—
(d) From a non-associate company—non-firm power	46,161	—	—	—	—	—
Total purchases at or across a state boundary	53,063	—	—	—	—	—

Payment for stand-by service.

* Receipts from interchange transactions not included by company in electric operating revenues but credited to production expense.

** $254,852 of this is receipts from interchange transactions not included by company in operating revenues but credited to production expense.

† Not included by company in electric operating revenues:

	Tennessee P S Co	Holston River Elec Co	Birmingham Elec Co	W Tenn P & L Co	Memphis P & L Co	Houston L & P Co
	$	$	$	$	$	$
	2,213,076	44,090	3,968,033	519,946	3,924,625	8,244,042
	17,843	—	—	8,215	226,201	113,389
	2,230,919	44,090	3,968,033	528,161	4,150,826	8,357,431
29	†100,052	—	—	—	—	—
	—	—	—	—	14,312	—
	—	—	—	—	611	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	14,923	—
29	2,330,971	44,090	3,968,033	528,161	4,165,749	8,357,431
	191,764	—	—	—	#90,000	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	191,764	—	—	—	90,000	—

Exhibit 111

6094

6095

TABLE A—SHEET 19

(opposite page)

6096

Exhibit 111 (Continued)

AMERICAN GAS GROUP

SUMMARY OF ELECTRIC OPERATING REVENUE AND COST OF ENERGY PURCHASED

YEAR 1934

	Subtotal — Properties in one state with no transactions across state boundaries	Subtotal — Properties in one state with transactions across state boundaries	Subtotal — Properties in two or more states and across state boundaries	GRAND TOTAL	
	$	$	$	$	%
1. Electric Revenue within state in which Company does business:					
(a) From sales to ultimate consumers	15,055,449	3,141,969	38,425,630	56,623,048	
(b) From sales to electric companies and municipalities in the state	92,298	14,008	3,986,689	4,092,995	
Total electric revenue in state	15,147,747	3,155,977	42,412,319	60,716,043	94.5
2. Revenue from use of facilities under lease for production of energy and transmission including reimbursement of expense	—	—	*1,460,105	$1,460,105	2.3
3. Revenue from energy sales at state boundary:					
(a) Associate company —firm power	—	99	870,341	870,440	
(b) " " —non-firm power	—	—	1,091,533	1,091,533	
(c) Non-Associate company —firm power	—	—	63,642	63,642	
(d) " " " —non-firm power	—	—	—	—	
Total from sales at state boundary	—	99	2,025,516	2,025,615	3.2
Total electric revenue	15,147,747	3,156,076	45,897,940	64,201,763	100.0
4. Cost of energy purchased at state boundary:					
(a) Associate company —firm power	—	870,341	99	870,440	
(b) " " —non-firm power	—	—	1,091,533	1,091,533	
(c) Non-Associate company —firm power	—	—	—	—	
(d) " " " —non-firm power	—	—	4,163	4,163	
(e) Carolina Pr. & Light Co.—non-firm power	—	—	Est. 21,200	Est. 21,200	
Total purchased at state boundary	—	870,341	1,116,995	1,987,336	

* Not revenue on company's books; included as revenue only for purpose of this statement.

Exhibit 111

6100

TABLE A—SHEET 20

6101

(opposite page)

6102

Exhibit 111 (Continued)

AMERICAN GAS GROUP
YEAR 1934

ELECTRIC OPERATING REVENUE AND COST OF ENERGY PUR

	Atlantic City Elec. Co.	The Scranton Elec. Co.	Indiana General Serv. Co.	Ky. and W. Va. Pr. Co., Inc.	Kingsport Utilities, Inc.	The Ohio Power Co.	
						W. Va.	Ohio
	$	$	$	$	$	$	$
1. Electric revenue within state in which Company does business							
(a) From sales to ultimate consumers	6,433,938	5,731,243	2,890,268	2,706,288	435,681		15,513,005
(b) From sales to electric companies and municipalities in the state	31,781	33,609	26,908	14,008		Est. 733,300	941,803
Total electric revenue in state	6,465,719	5,764,852	2,917,176	2,720,296	435,681	733,300	16,454,808
2. Revenue from use of facilities under lease for production of energy and transmission, including reimbursement of expense	—	—	—	—	—	—	*1,460,105
3. Revenue from energy sales at state boundary					99		
(a) Associate company —firm power	—	—	—	—	—	—	—
(b) " " —non-firm power	—	—	—	—	—	—	889,701
(c) Non-Associate company —firm power	—	—	—	—	—	—	—
(d) " " " —non-firm power	—	—	—	—	—	—	—
Total from sales at state boundary	—	—	—	—	99	—	889,701
Total electric revenue	6,465,719	5,764,852	2,917,176	2,720,296	435,780	733,300	18,804,614
4. Cost of energy purchased at state boundary							
(a) Associate company —firm power	—	—	—	870,341	—	—	—
(b) " " —non-firm power	—	—	—	—	—	—	201,832
(c) Non-Associate company —firm power	—	—	—	—	—	—	—
(d) " " " —non-firm power	—	—	—	—	—	—	4,163
(e) Carolina Pr. & Light Co.—non-firm power	—	—	—	—	—	—	—
Total purchased at state boundary				870,341			205,995

* Not revenue on company's books; included as revenue only for purpose of this statement.

PURCHASED

Wheeling Elec. Co.		Appalachian Electric Power Co.			Ind. & Mich. Elec. Co.	
Ohio	W. Va.	W. Va.	Va.	Tenn.	Mich.	Ind.
$	$	$	$	$	$	$
310,269	1,964,874	11,923,236	4,357,453	—	1,348,609	3,008,184
		156,662	48,774	74,952	87,439	1,943,759
310,269	1,964,874	12,079,898	4,406,227	74,952	1,436,048	4,951,943
—	—	—	—	—	—	—
—	—	870,341	Inc. in "W. Va."	—	—	—
—	—	201,558		—	—	274
—	—	—		—	—	63,642
—	—	—		—	—	—
—	—	1,071,899		—	—	63,916
310,269	1,964,874	13,151,797	4,406,227	74,952	1,436,048	5,015,859
—	—	—	99	—	—	—
—	—	152,374	—	—	—	737,327
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	Est. 21,200	—	—	—
		152,374	21,299			737,327

Exhibit 111

6106

6107

TABLE A—SHEET 21

(opposite page)

6108

Exhibit 111 (Continued) TABLE A—SHEET 21

STATEMENT OF ELECTRIC OPERATING REVENUES—YEAR 1934

SHOWING REVENUES FROM ENERGY SALES AT OR ACROSS STATE BOUNDARIES AND PURCHASE PRICE OF ENERGY PURCHASED AT OR ACROSS STATE BOUNDARIES

American Company Group, Electric Company Group, National Company Group and American Gas Group, Combined

	Subtotal Properties in one state with no transactions across state boundaries	Subtotal Properties in one state with transactions across state boundaries	Subtotal Properties in two or more states and across state boundaries	Grand Total	
	$	$	$	$	%
1. Electric revenues within state in which company sells energy					
(a) From sales to ultimate consumers (including miscellaneous electric revenues)	71,777,016	60,934,863	*85,048,372	*217,760,251	
(b) From sales to electric utilities doing business in state	2,447,508	1,671,665	5,568,184	9,687,357	
Total electric revenues from sales within state	74,224,524	62,606,528	90,616,556	227,447,608	97.67
2. Revenues from energy transfers to or from a state boundary	—	121,671	—	121,671	0.05
3. Revenues from energy sales at or across a state boundary					
(a) To an associate company —firm power	—	1,506,448	1,106,631	2,613,079	
(b) To an associate company —non-firm power	—	809,337	1,664,212	2,473,549	
(c) To a non-associate company—firm power	—	8,653	93,265	101,918	
(d) To a non-associate company —non-firm power	—	91,320	16,154	107,474	
Total from energy sales at or across a state boundary	—	2,415,758	2,880,262	5,296,020	2.28
Total Electric Operating Revenues	74,224,524	65,143,957	93,496,818	232,865,299	100.00
4. Purchase price of energy purchased at or across a state boundary					
(a) From an associate company —firm power	—	2,568,454	44,625	2,613,079	
(b) From an associate company —non-firm power	—	809,337	1,664,212	2,473,549	
(c) From a non-associate company—firm power	—	6,902	—	6,902	
(d) From a non-associate company—non-firm power	—	46,161	4,163	50,324	
Total purchases at or across a state boundary	—	3,430,854	1,713,000	5,143,854	

* Includes $1,460,105 receipts for generation and delivery of energy for account of lessees, not included on books of company concerned as operating revenues.

General Note:—To avoid undue complexity in this tabulation, transactions between subsidiaries of any of the four holding companies are listed as transactions with "associate" companies, although defendants do not conconcede that a subsidiary of one holding company can properly be considered an associate of a subsidiary of one of the other three holding companies.

Exhibit 111

EXPLANATORY NOTES

6112 *ANALYSIS BY INTERCONNECTED SYSTEMS OF MOVEMENT OF ENERGY HANDLED BY OPERATING SUBSIDIARIES OF HOLDING DEFENDANTS*

TABLE B

I. Analysis by Interconnected Systems

1. Column 1 identifies the "system" whose operations are analyzed in succeeding columns. A "system", for the purpose of this table, consists of a
6113 group of the properties of subsidiaries of one or more holding defendants, located within a single state, and interconnected by transmission lines, likewise located within such state. The foregoing definition has been followed throughout the table with the following exceptions:

(a) Isolated properties adjacent to the main system have in most cases been included within such system.

(b) In a number of cases where the lines
6114 of a system extend across a state boundary to serve small communities located near the boundary in a second state in which there is a separate main system, the data for such minor operations in the second state have been combined with the data for the main system in the second state.

(c) Two groups of properties operated by Pacific Power & Light Company in northern Oregon which are not interconnected with

lines within Oregon but with lines which pass through Washington are treated as a single Oregon system. 6115

(d) Subsidiaries of American Gas have been included as separate systems even in those cases where such systems are interconnected with the systems of subsidiaries of other holding defendants to form a single "system" within the foregoing definition. Thus the "American Gas main system" and the "American Gas Pennsylvania system" are treated separately from the systems of subsidiaries of the other holding defendants with which they are directly interconnected. 6116

2. Column 2 states the aggregate amount of energy "handled" in each state by each system within such state. The term "energy handled" means the quantity of energy generated by the system plus the quantity received by it from all sources. In those cases in which energy is transferred from one system within a state to a second system located in an adjoining state, the amount so transferred is included in the total amount of energy handled by each system (energy generated by the first system and energy received by the second). 6117

3. Column 3 states the amount of energy handled by those systems for which it has been determined that no energy is received or transmitted, directly or indirectly, across state lines. Systems are classified under this column even where they have, indirectly through the lines of non-associates, interconnections with companies

outside of the state, if it can be ascertained that
6118 no energy handled by such systems in 1935 (1934 in the case of systems of American Gas subsidiaries) crosses state boundaries.

4. Column 4 states the amount of energy handled by those systems which, indirectly through the lines of non-associates, have interconnections with companies outside of the state, where a portion of the energy handled may have crossed state boundaries, but where (because of the impracticability of tracing sources and destinations of energy) it is impossible to determine what portion, if any, of
6119 the energy handled by the system did, in fact, cross state boundaries.

5. Column 5 states the amount of energy handled by those systems which are interconnected with a system operating in another state or which otherwise are known to have transmitted or received energy at or across state boundaries in 1935 (1934 in the case of systems of American Gas subsidiaries).

6120 6. Columns 6 to 13 analyze the inward and outward movements of energy across state boundaries which occurred in the operation of the systems handling the aggregate amount of energy set forth in column 5.

(a) Column 6 states the amount of energy which was determined to have been received by the system across state boundaries either over lines which are a part of the system or over lines belonging to others.

(b) Column 7 states the quantity given in column 6 as a percentage of the total energy handled by the interconnected part of the system (column 5). 6121

(c) Column 8 states the amount of energy having an undetermined source, a part of which may or may not have been transmitted across state boundaries by others before being recived by the system, the impracticability of tracing the source of such energy making it impossible to determine what portion of such energy, if any, had been, in fact, transmitted across state boundaries. 6122

(d) Column 9 states the figure given in column 8 as a percentage of the total energy handled by the interconnected part of the system (column 5).

(e) Columns 10 to 13 analyze the outward movements of energy of the system in the same manner as inward movements are analyzed in columns 6 to 9.

II. Consolidated Statements of Energy Handled and of Energy Movements Across State Boundaries. 6123

Sheets 2 and 2 of Table B contain consolidated statements (a) for the subsidiaries of American Company, Electric Company and National Company, (b) for the subsidiaries of American Gas, and (c) for the subsidiaries of American Company, Electric Company, National Company and American Gas.

In compiling such consolidated tables, certain
6124 eliminations have been made from the combined totals for the respective individual state systems as follows:

(a) Consolidated "Energy handled by systems" is after elimination of all transfers between systems. It consists only of generation in the systems, plus purchases from non-associate sources.

(b) Consolidated "Energy which crossed state boundaries to and from systems in column 5" is after elimination of duplicate move-
6125 ments of the same energy across more than one state boundary or across the same state boundary more than once, to the extent that such duplications are specifically identifiable. All energy movements across state boundaries between systems are included once in total inward movements and once in total outward movements. Loop transfers of energy from a system in one state through another state back to the system in the original state are also included
6126 once in total inward movements and once in total outward movements. Duplications in energy movements across state boundaries are not eliminated, even where known to exist, if the amount of the duplication is not determinable from the data available.

The data for subsidiaries of American Gas are for the year 1934 while the data for all other operating companies are for the year 1935. The data for these two years cannot be consolidated with strict

accuracy. However, the consolidated table including American Gas is a substantially accurate presentation of the situation as it would appear had 1935 data been used for American Gas. 6127

III. Analysis of Energy Movements Across State Boundaries

Sheet 4 of Table B contains an analysis of the nature of the Direct Inward Movements and Direct Outward Movements across state boundaries shown in Columns 6 and 10 of Sheet 1.

This analysis of Direct Inward Movements distinguishes seven classes: 6128

(a) Transfer across boundary by company over its own lines for its own account. Energy purchased outside of the state and transmitted directly into the state is not included in this class but is included in purchases across a state boundary (class (d) or class (g) below).

(b) Transfer across boundary over company's lines for others. This refers to a transaction in the American Gas group.

(c) Transfer from boundary through state to another boundary. This refers to instances where energy is transmitted from a system in one state to a system in another state through a third state. In these instances, there are involved two crossings of state boundaries by the same energy, that is, the same energy appears in Table B as an inward movement for two different systems and likewise as an outward movement for two 6129

6130 different systems. In the consolidated totals in sheets 3 and 4 of Table B, this energy appears only once in Inward Movements and once in Outward Movements, but in the details in sheet 1 of Table B it appears twice in Inward Movements and twice in Outward Movements. All of the transactions in this class were for associate companies.

(d) Purchase across boundary—from associate. This includes purchases at a boundary, or within another state and transferred by the
6131 purchaser directly across a boundary, or within a state after transfer by the seller directly across a boundary.

(e) Loop transfer from a state through another state back into same state. In these transactions, the energy involved in the loop transfers appears in Sheet 1, Table B twice in Inward Movements and twice in Outward Movements, and in two cases where the loop transfer was effected through two adjoining states the energy involved appears three times in Inward Movements and three times
6132 in Outward Movements. In the consolidated totals in Sheets 3 and 4 of Table B, appears once in Inward Movements and once in Outward Movements.

(f) Transfer from boundary to another utility in the state. These transactions represent instances where energy originates in another state and is transferred, either by the selling company or by an associate, to a point

of delivery within the state of sale to another utility. In Outward Movements these same transactions appears as "Sales across boundary." 6133

(g) Purchase across boundary—from non-associate.

Gross totals are shown for each type of energy movement enumerated, with their respective percentage relationships to the gross total of energy handled as shown in Column 2 of Sheet 1.

The analysis of Direct Outward Movements has been prepared on a similar basis. 6134

Sheet 4 also includes consolidated summaries of the data contained therein (1) for the subsidiaries of American, Electric and National Companies, (2) for the subsidiaries of American Gas, and (3) for the subsidiaries of all four of said holding companies. These consolidated summaries show the percentage which each class of energy movement enumerated above constitutes of (1) total inward movements, (2) total outward movements, and (3) total energy handled, as shown by Column 2 of Sheet 2. In these consolidated summaries, specifically identifiable duplications in energy movements across state boundaries are eliminated on the same basis as in Sheet 3. 6135

IV. Differences between Table A and Table B

The basic difference between Table A and Table B, aside from the greater detail given in Table A, is that:—(1) Table A is prepared by individual company systems (where a company operates in

6136 two or more states and in some cases where a part of its properties are isolated from its main system, by parts of individual company systems), and accordingly intercompany transactions between associate companies are shown and are not eliminated in the totals; (2) Table B is prepared by state systems, including as a single system all interconnected (and usually all adjacent isolated) properties of associate companies in the state, and accordingly all intercompany transactions between associate companies are eliminated except transactions across state boundaries. On a comparable basis,

6137 Table B thus shows lower figures for total energy handled than does Table A, and larger percentages of total energy handled crossing state boundaries.

Table A and Table B also differ in that the data for Table A apply to the year 1934 whereas for Table B 1935 data are used (except that 1934 data are used for American Gas subsidiaries). In general the volume of transactions of all types was somewhat greater in 1935 than in 1934.

6138

MOVEMENT OF ENERGY HANDLED BY ELECTRIC SYSTEMS OF OPERATING SUBSIDIARIES OF HOLDING DEFENDANTS [1]

SYSTEM (1)	ENERGY HANDLED BY SYSTEMS: Total energy handled (2)	Systems located within one state and not either directly or indirectly receiving energy from or delivering energy to another state (3)	Systems located within one state which may indirectly receive energy from, or deliver energy to another state (4)	Systems directly receiving or delivering energy at or across state boundaries (5)	ENERGY WHICH CROSSED STATE BOUNDARIES TO AND FROM SYSTEMS IN COLUMN 5 — INWARD MOVEMENTS: Direct (6)	% of Col. 5 (7)	Energy received in the state which may in part have originated in another state (8)	% of Col. 5 (9)	OUTWARD MOVEMENTS: Direct (10)	% of Col. 5 (11)	Energy delivered in the state which may in part be transmitted to another state (12)	% of Col. 5 (13)
NORTHWEST GROUP AND NORTHERN IDAHO AND MONTANA												
Washington	1,270,182	—	—	1,270,182	85,935	6.8	—	—	403,948	31.8	5,145	0.4
Oregon	292,190	34,631	—	257,559	161,843	62.8	—	—	45,862	17.8	24,686	9.6
Idaho	288,862	—	—	288,862	251,072	86.9	—	—	58,811	20.4	—	—
Montana	1,284,069	—	—	1,284,069	18,738	1.5	—	—	16,609	1.3	—	—
MINNESOTA-WISCONSIN GROUP												
Minnesota	407,968	—	—	407,968	—	—	—	—	32,621	8.0	—	—
Wisconsin	32,624	—	—	32,624	32,585	99.9	—	—	—	—	—	—
NEBRASKA-IOWA GROUP												
Nebraska	354,801	—	—	354,801	—	—	—	—	31,994	9.0	24,655	7.0
Iowa	31,994	—	—	31,994	31,994	100.0	—	—	—	—	—	—
KANSAS-MISSOURI												
Kansas	265,804	—	—	265,804	10	—	—	—	7,585	2.9	—	—
Missouri	7,575	—	—	7,575	7,575	100.0	—	—	—	—	—	—
FLORIDA	249,184	245,796	3,388	—	—	—	—	—	—	—	—	—
ARIZONA	90,811	90,811	—	—	—	—	—	—	—	—	—	—
TEXAS	1,658,673	1,654,310	—	4,363	—	—	—	—	1,715	39.3	—	—
MEXICO (REPUBLIC)	1,715	—	—	1,715	1,715	100.0	—	—	—	—	—	—
NEW MEXICO	2,818	2,818	—	—	—	—	—	—	—	—	—	—
COLORADO	25,470	25,470	—	—	—	—	—	—	—	—	—	—
UTAH-IDAHO GROUP												
Idaho	529,223	790	—	528,433	83	—	—	—	279,385	52.9	—	—
Utah	521,402	947	—	520,455	249,412	47.9	—	—	2,111	0.4	—	—
Oregon	28,644	—	—	28,644	28,625	99.9	—	—	—	—	—	—
Nevada	1,348	—	—	1,348	1,348	100.0	—	—	—	—	—	—
Wyoming	3,708	1,680	—	2,028	2,028	100.0	—	—	—	—	—	—

[1] All data are for year 1935, except in the case of American Gas System where 1934 data are used, data for 1935 being unavailable. All energy quantities are in thousands of kilowatt-hours (Mkwh).

Exhibit 111

6142

TABLE B—SHEET 1—*Continued*

6143

(opposite page)

6144

Exhibit 111 (Continued)

TABLE B—SHEET 1 (Continued)

MOVEMENT OF ENERGY HANDLED BY ELECTRIC SYSTEMS OF OPERATING SUBSIDIARIES OF HOLDING DEFENDANTS

SYSTEM (1)	Total energy handled (2)	ENERGY HANDLED BY SYSTEMS: Systems located within one state and not either directly or indirectly receiving energy from or delivering energy to another state (3)	Systems located within one state which may indirectly receive energy from, or deliver energy to another state (4)	Systems directly receiving or delivering energy at or across state boundaries (5)	ENERGY WHICH CROSSED STATE BOUNDARIES TO AND FROM SYSTEMS IN COLUMN 5 — INWARD MOVEMENTS: Direct (6)	% of Col. 5 (7)	Energy received in the state which may in part have originated in another state (8)	% of Col. 5 (9)	OUTWARD MOVEMENTS: Direct (10)	% of Col. 5 (11)	Energy delivered in the state which may in part be transmitted to another state (12)	% of Col. 5 (13)
LOUISIANA-ARKANSAS-MISSISSIPPI GROUP AND WEST TENNESSEE												
Louisiana (Northeast System)	491,432	—	—	491,432	18,733	3.8	—	—	351,221	71.5	—	—
Louisiana (Northwest System)	4,652	—	—	4,652	4,652	100.0	—	—	17	0.4	—	—
Louisiana (Southern System)	388,593	1,012	295	387,286	47,741	12.3	—	—	1,985	0.5	—	—
Arkansas	459,959	430	3,157	456,372	263,865	57.8	—	—	136,093	29.8	17,228	3.8
Mississippi (Main System)	219,814	1,574	—	218,240	215,643	98.8	—	—	61,146	28.0	—	—
Mississippi (Northern Isolated Systems)	889	—	—	889	889	100.0	—	—	—	—	—	—
Mississippi (Natchez System)	4,908	—	—	4,908	—	—	—	—	89	1.8	—	—
Tennessee	225,146	—	—	225,146	21,309	9.5	—	—	22,370	9.9	—	—
ALABAMA	230,824	230,824	—	—	—	—	—	—	—	—	—	—
CAROLINA-TENNESSEE GROUP												
North Carolina (Eastern System)	674,307	—	—	674,307	198,225	29.4	—	—	150,851	22.4	100,105	14.9
North Carolina (Western System)	321,935	—	—	321,935	6,371	2.0	—	—	200,270	62.2	—	—
South Carolina	196,786	—	—	196,786	28,355	14.4	—	—	81,987	41.7	—	—
Tennessee	354,189	—	—	354,189	194,352	54.9	159,381	45.0	14,190	4.0	209,911	59.3
Virginia	96,117	—	—	96,117	96,117	100.0	—	—	96,117	100.0	—	—
PENNSYLVANIA	1,814,786	164,453	—	1,650,333	7,649	0.5	80,518	4.9	49,500	3.0	104,676	6.3
AMERICAN GAS												
Main System												
Michigan	75,963	—	—	75,963	42,495	55.9	—	—	9,036	11.9	—	—
Indiana	536,297	—	—	536,297	378,357	70.5	—	—	50,737	9.5	—	—
Ohio	1,931,435	—	—	1,931,435	533,540	27.6	—	—	489,564	25.3	—	—
West Virginia (Northern System)	456,237	—	—	456,237	—	—	—	—	367,811	80.6	—	—
West Virginia (Southern System)	1,275,182	—	—	1,275,182	580,198	45.5	—	—	384,954	30.2	—	—
Virginia	872,948	—	—	872,948	475,217	54.4	—	—	553,374	63.4	—	—
Tennessee	348,361	—	—	348,361	187,092	53.7	161,269	46.3	312,340	89.7	—	—
Kentucky	184,326	—	—	184,326	146,453	79.5	—	—	6,036	3.3	—	—
Pennsylvania System	257,894	—	257,894	—	—	—	—	—	—	—	—	—
New Jersey System	204,238	204,238	—	—	—	—	—	—	—	—	—	—

Exhibit 111

6148

TABLE B—SHEET 2

6149

(opposite page)

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TABLE B—SHEET 2

Exhibit 111 (Continued)

CONSOLIDATED STATEMENT OF ENERGY HANDLED BY ELECTRIC SYSTEMS OF OPERATING SUBSIDIARIES OF HOLDING-DEFENDANTS

	SUBSIDIARIES OF AMERICAN COMPANY, ELECTRIC COMPANY AND NATIONAL COMPANY					SUBSIDIARIES OF AMERICAN GAS*				
	Energy Generated M-KWH	† Energy Purchased M-KWH	Energy transmitted for account of others M-KWH	Total energy handled M-KWH	%	Energy Generated M-KWH	† Energy Purchased M-KWH	Energy generated and/or transmitted for account of others M-KWH	Total energy handled M-KWH	%
Systems located within one state, and not either directly or indirectly receiving energy from, or delivering energy to, another state.	1,827,992	627,554	—	2,455,546	22.5	204,238	—	—	204,238	5.1
Systems located within one state which may indirectly receive energy from, or deliver energy to another state.	1,375	5,465	—	6,840	0.1	257,218	676	—	257,894	6.5
Systems either located in two or more states, or located within one state, but directly receiving or delivering energy at or across state boundaries.	7,549,428	862,741	16,134	8,428,303	77.4	2,715,655	462,437	349,220	3,527,312	88.4
TOTAL ALL SYSTEMS.	9,378,795	1,495,760	16,134	10,890,689	100.0	3,177,111	463,113	349,220	3,989,444	100.0

* American Gas data are for year 1934.

† Includes receipts under interchange agreements.

Exhibit 111

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TABLE B—SHEET 3

6155

(opposite page)

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Exhibit 111 (Continued)

TABLE B—SHEET 3

CONSOLIDATED STATEMENT OF MOVEMENT ACROSS STA
BOUNDARIES OF ENERGY HANDLED BY OPERATING
SUBSIDIARIES OF HOLDING-DEFENDANTS

ENERGY HANDLED BY SYSTEMS

(1)	Total all systems M—KWH (2)	Systems located within one state and not either directly or indirectly receiving energy from or delivering energy to another state M—KWH (3)	Systems located within one state which may indirectly receive energy from, or deliver energy to another state M—KWH (4)	Systems either located in two or more states or located within one state, but directly receiving or delivering energy across state boundaries M—KWH (5)	% of Col. 2 (6)	EXPRESSED Direct M—KWH (7)	% Col. 5 (8)
SUBSIDIARIES OF AMERICAN CO., ELECTRIC CO. AND NATIONAL CO.	10,890,689	2,455,546	6,840	8,428,303	77.4	1,653,201	19.6
SUBSIDIARIES OF AMERICAN GAS	3,989,444	204,238	257,894	3,527,312	88.4	2,192,283	62.2
ALL SUBSIDIARIES OF HOLDING DEFENDANTS	14,458,671	2,659,784	6,840	11,792,047	81.5	3,705,402	31.4

STATE
ING

ENERGY WHICH CROSSED STATE BOUNDARIES TO AND FROM SYSTEMS IN COLUMN 5

ED IN TERMS OF INWARD MOVEMENTS — EXPRESSED IN TERMS OF OUTWARD MOVEMENTS

rect		Energy received in the state which may in part have originated in another state			Direct			Energy delivered in the state which may in part be transmitted to another state		
% Col. 5 (8)	% Col. 2 (9)	M—KWH (10)	% Col. 5 (11)	% Col. 2 (12)	M—KWH (13)	% Col. 5 (14)	% Col. 2 (15)	M—KWH (16)	% Col. 5 (17)	% Col. 2 (18)
.6	15.2	239,899	2.8	2.2	1,722,814	20.4	15.8	360,514	4.3	3.3
.2	54.9	—	—	—	2,169,838	61.5	54.4	—	—	—
.4	25.6	133,333	1.1	0.9	3,731,407	31.7	25.8	290,208	2.4	2.0

Exhibit 111

6160

TABLE B—SHEET 4

6161

(opposite page)

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Exhibit 111 (Continued) 2055 TABLE B—SHEET 4

ANALYSIS OF DIRECT INWARD AND DIRECT OUTWARD MOVEMENTS OF ENERGY ACROSS STATE BOUNDARIES AS SHOWN ON TABLE B—SHEET 1

SUBSIDIARIES OF AMERICAN, ELECTRIC AND NATIONAL COMPANIES—YEAR 1935

	DIRECT INWARD MOVEMENTS							DIRECT OUTWARD MOVEMENTS					
	Across boundary by company over own lines for own account	From boundary through state to another boundary for associate	Purchase across boundary from associate	Loop transfer back into same state for self or associate	Transfer from boundary to another utility in state	Purchase across boundary from non-associate	Total Direct Inward Movements	Across boundary by company over own lines for own account	To boundary through state from another boundary for associate	Sale across boundary to associate	Loop transfer back into same state for self or associate	Sale across boundary to non-associate	Total Direct Outward Movements
Northwest Group													
Washington	54,527	—	—	31,408	—	—	85,935	364,898	—	—	31,408	7,642	403,948
Oregon	159,108	—	—	2,735	—	—	161,843	43,127	—	—	2,735	—	45,862
Idaho	222,318	—	81	28,673	—	—	251,072	30,138	—	—	28,673	—	58,811
Montana	18,738	—	—	—	—	—	18,738	16,528	—	81	—	—	16,609
	454,691	—	81	62,816	—	—	517,588	454,691	—	81	62,816	7,642	525,230
Minnesota—Wisconsin Group													
Minnesota	—	—	—	—	—	—	—	—	—	32,585	—	36	32,621
Wisconsin	—	—	32,585	—	—	—	32,585	—	—	—	—	—	—
Iowa—Nebraska Group													
Nebraska	—	—	—	—	—	—	—	—	—	27,014	—	4,980	31,994
Iowa	—	—	27,014	—	4,980	—	31,994	—	—	—	—	—	—
Kansas—Missouri Group													
Kansas	—	—	—	—	—	10	10	7,575	—	—	—	10	7,585
Missouri	7,575	—	—	—	—	—	7,575	—	—	—	—	—	—
Texas—Mexico Group													
Texas	—	—	—	—	—	—	—	1,715	—	—	—	—	1,715
Mexico	1,715	—	—	—	—	—	1,715	—	—	—	—	—	—
Idaho—Utah Group													
Idaho	83	—	—	—	—	—	83	81,860	—	191,130	—	6,395	279,385
Utah	58,282	—	191,130	—	—	—	249,412	2,111	—	—	—	—	2,111
Oregon	22,230	—	—	—	6,395	—	28,625	—	—	—	—	—	—
Nevada	1,348	—	—	—	—	—	1,348	—	—	—	—	—	—
Wyoming	2,028	—	—	—	—	—	2,028	—	—	—	—	—	—
	83,971	—	191,130	—	6,395	—	281,496	83,971	—	191,130	—	6,395	281,496
Louisiana—Arkansas—Mississippi Group													
Louisana—(Northeast) —	—	—	16,140	2,593	—	—	18,733	—	—	296,475	54,746	—	351,221
" —(Northwest)	—	—	—	4,652	—	—	4,652	—	—	—	17	—	17
" —(Southern)	—	—	—	47,741	—	—	47,741	—	—	1,762	223	—	1,985
Arkansas	—	93,088	150,272	20,505	—	—	263,865	—	93,088	22,500	20,505	—	136,093

Exhibit 111

6166

TABLE B—SHEET 4—*Continued*

6167

(opposite page)

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ANALYSIS OF DIRECT INWARD AND DIRECT OUTWARD MOVEMENTS OF ENERGY ACROSS STATE BOUNDARIES AS SHOWN ON TABLE B—SHEET 1

SUBSIDIARIES OF AMERICAN, ELECTRIC AND NATIONAL COMPANIES—YEAR 1935

	DIRECT INWARD MOVEMENTS							DIRECT OUTWARD MOVEMENTS					
	Across boundary by company over own lines for own account	From boundary through state to another boundary for associate	Purchase across boundary from associate	Loop transfer back into same state for self or associate	Transfer from boundary to another utility in state	Purchase across boundary from non-associate	Total Direct Inward Movements	Across boundary by company over own lines for own account	To boundary through state from another boundary for associate	Sale across boundary to associate	Loop transfer back into same state for self or associate	Sale across boundary to non-associate	Total Direct Outward Movements
	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh
Carolina Group													
North Carolina—(Eastern)	81,987	—	12,302	103,936	—	—	198,225	16,066	—	32,297	102,488	—	150,851
" " —(Western)	—	—	—	6,371	—	—	6,371	12,289	—	166,449	7,819	13,713	200,270
South Carolina	28,355	—	—	—	—	—	28,355	81,987	—	—	—	—	81,987
Tennessee	—	—	40,557	14,190	139,605	—	194,352	—	—	—	14,190	—	14,190
Virginia	—	—	—	96,117	—	—	96,117	—	—	—	96,117	—	96,117
	110,342	—	52,859	220,614	139,605	—	523,420	110,342	—	198,746	220,614	13,713	543,415
Pennsylvania Group													
Pennsylvania	—	—	—	—	—	7,649	7,649	—	—	—	—	49,500	49,500
TOTAL (before elimination of duplications)	658,294	100,442	626,307	433,182	150,980	7,659	1,976,864	658,294	100,442	772,194	433,182	82,365	2,046,477
Percent of total energy handled	5.13%	0.78%	4.88%	3.37%	1.18%	0.06%	15.40%	5.13%	0.78%	6.02%	3.37%	0.64%	15.94%

SUBSIDIARIES OF AMERICAN GAS—YEAR 1934

	Across boundary by company over own lines for own account	Across boundary over company's own lines for others	Purchase across boundary from associate	Loop transfer back into same state for associate	Purchase across boundary from non-associate	Total Direct Inward Movements	Across boundary by company over own lines for own account	Across boundary over company's own lines for others	Sale across boundary to associate	Loop transfer back into same state for associate	Sale across boundary to non-associate	Total Direct Outward Movements
	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh	Mkwh
Michigan	42,495	—	—	—	—	42,495	9,036	—	—	—	—	9,036
Indiana	9,036	—	369,321	—	—	378,357	42,495	—	132	—	8,110	50,737
Ohio	18,591	349,220	163,646	—	2,083	533,540	—	—	488,991	—	573	489,564
West Virginia (Northern)	—	—	—	—	—	—	18,591	349,220	—	—	—	367,811
West Virginia (Southern)	496,227	—	83,971	—	—	580,198	125,208	—	259,746	—	—	384,954
Virginia	433,532	—	904	*4,014	—	475,217	532,250	—	9,387	*4,014	—	553,374
			*36,767						*7,723			
Tennessee	36,023	—	*147,055	*4,014	—	187,092	308,324	—	2	*4,014	—	312,340
Kentucky	—	—	146,453	—	—	146,453	—	—	6,036	—	—	6,036
TOTAL (before elimination of duplications)	1,035,904	349,220	948,117	8,028	2,083	2,343,352	1,035,904	349,220	772,017	8,028	8,683	2,173,852
Percent of total energy handled	16.86%	5.69%	15.43%	0.13%	0.03%	38.14%	16.86%	5.69%	12.56%	0.13%	0.14%	35.38%

* These figures are for transactions with Carolina Power & Light Company and Tennessee Public Service Company.

Exhibit 111

6172

TABLE B—SHEET 4—*Continued*

6173

(opposite page)

6174

Exhibit 111 (Continued) TABLE B—SHEET 4—*Continued*

CONSOLIDATED SUMMARY OF ENERGY MOVEMENTS ACROSS STATE BOUNDARIES
AS SHOWN ON TABLE B—SHEET 3

SUBSIDIARIES OF AMERICAN, ELECTRIC AND NATIONAL COMPANIES—YEAR 1935

(After elimination of identifiable duplications)

SUMMARY OF TRANSFERS ACROSS STATE BOUNDARIES, EXPRESSED IN TERMS OF INWARD MOVEMENTS	Mkwh of inward movements	% of total	% of energy handled	SUMMARY OF TRANSFERS ACROSS STATE BOUNDARIES, EXPRESSED IN TERMS OF OUTWARD MOVEMENTS	Mkwh of outward movements	% of total	% of energy handled
Transfer across boundary by company over its own lines for its own account	658,294	39.8	6.04	Transfer across boundary by company over its own lines for its own account	658,294	38.2	6.04
Purchase across boundary—from associate	626,307	37.9	5.75	Sale across boundary—to associate	772,194	44.8	7.09
Loop transfer from a state through another state back into same state—for self or associate	209,961	12.7	1.93	Loop transfer from a state through another state back into same state—for self or associate	209,961	12.2	1.93
Transfer from boundary to another utility in state	150,980	9.1	1.39	Sale across boundary—to non-associate	82,365	4.8	0.76
Purchase across boundary—from non-associate	7,659	0.5	0.07				
Total Inward Movements (consolidated)	1,653,201	100.0	15.18	Total Outward Movements (consolidated)	1,722,814	100.0	15.82

SUBSIDIARIES OF AMERICAN GAS—YEAR 1935

(After elimination of identifiable duplications)

Transfer across boundary by company over its own lines for its own account	888,849	40.5	22.28	Transfer across boundary by company over its own lines for its own account	1,035,904	47.7	25.97
Transfer across boundary over company's lines for others	349,220	15.9	8.75	Transfer across boundary over company's lines for others	349,220	16.1	8.75
Purchase across boundary—from associate	948,117	43.3	23.77	Sale across boundary—to associate	772,017	35.6	19.34
Loop transfer from a state through another state back into same state—for associate	4,104	0.2	0.10	Loop transfer from a state through another state back into same state—for associate	4,014	0.2	0.10
Purchase across boundary—from non-associate	2,083	0.1	0.05	Sale across boundary—to non-associate	8,683	0.4	0.22
Total Inward Movements (consolidated)	2,192,283	100.0	54.95	Total Outward Movements (consolidated)	2,169,838	100.0	54.38

SUBSIDIARIES OF AMERICAN, ELECTRIC AND NATIONAL COMPANIES (1935) AND OF AMERICAN GAS (1934)

(After elimination of identifiable duplications)

Transfer across boundary by company over its own lines for its own account	1,547,143	41.7	10.69	Transfer across boundary by company over its own lines for its own account	1,547,143	41.4	10.69
Transfer across boundary over company's lines for others	349,220	9.4	2.42	Transfer across boundary over company's lines for others	349,220	9.4	2.42
Purchase across boundary—from associate	1,574,424	42.5	10.89	Sale across boundary—to associate	1,544,211	41.4	10.68
Loop transfer from a state through another state back into same state—for self or associate	199,785	5.4	1.38	Loop transfer from a state through another state back into same state—for self or associate	199,785	5.4	1.38
Transfer from boundary to another utility in state	25,088	0.7	0.17	Sale across boundary—to non-associate	91,048	2.4	0.63
Purchase across boundary—from non-associate	9,742	0.3	0.07				
Total Inward Movements (consolidated)	3,705,402	100.0	25.62	Total Outward Movements (consolidated)	3,731,407	100.0	25.80

" —(Northwest)	—	—	—	4,652	—	—	4,652	—	—	—	17	—	17
" —(Southern)	—	—	—	47,741	—	—	47,741	—	—	1,762	223	—	1,985
Arkansas	—	93,088	150,272	20,505	—	—	263,865	—	93,088	22,500	20,505	—	136,093
Mississippi—(Main)	—	145	154,497	61,001	—	—	215,643	—	145	—	61,001	—	61,146
" —(Memphis)	—	—	889	—	—	—	889	—	—	—	—	—	—
" —(Natchez)	—	—	—	—	—	—	—	—	—	—	—	89	89
Tennessee	—	7,209	840	13,260	—	—	21,309	—	7,209	1,901	13,260	—	22,370
		100,442	306,498	146,159			572,832		100,442	306,498	146,159		

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6178

ELECTRIC OPERATIONS— COMPARATIVE STATEMENT OF UNITED STATES TOTALS WITH OPERATIONS OF SUBSIDIARIES OF MAJOR HOLDING DEFENDANTS (1934)

6179

(opposite page)

6180

Exhibit 112

ELECTRIC OPERATIONS

Comparison, based upon approximate statistics for year 1934, of combined electric operations of (a) American, Electric and National Companies subsidiaries, (b) American Gas subsidiaries, and (c) American, Electric, National and American Gas Companies subsidiaries, with total electric utility industry in the United States (Edison Electric Institute data), showing respective percentages which these two groups constitute of the United States total.

	Total electric utility industry in U S	Combined Subsidiaries of American Company, Electric Company, National Company		Combined Subsidiaries of American Gas		Combined Subsidiaries of American Gas, American Company, Electric Company, National Company	
Electric customers, total	24,809,000	1,833,000	7.4%	654,500	2.6%	2,487,500	10.0%
Farm customers	744,000	64,800	8.7%	18,500	2.5%	83,300	11.2%
Energy sold to ultimate consumers, thousand kilowatt-hours †	70,782,000	6,943,000	9.8%	2,829,000	4.0%	9,772,000	13.8%
Electric revenues from ultimate consumers †	$1,837,000,000	157,100,000	8.6%	57,500,000	3.1%	214,600,000	11.7%
Energy generated—thousand kilowatt-hours	84,931,000	8,299,000	9.8%	3,517,000	4.1%	11,816,000	13.9%
Generating capacity, kilowatts	33,242,000	2,895,000	8.7%	1,178,000	3.5%	4,073,000	12.2%
Transmission lines (over 40,000 volts)—circuit miles	77,900 *	18,740	24.1%	4,720	6.1%	23,460	30.2%

* For 1932, reported by Edison Electric Institute in 1935 as latest figure available, with comment that no appreciable changes have taken place since.

† In this tabulation, figures for energy sales to, and revenues from, ultimate consumers do not include sales to and revenues from other departments of an electric utility, such as street railway departments. Elsewhere in this stipulation of facts, such sales and revenues are included in figures for ultimate consumers.

Exhibit 112A

6184 **MAPS OF ELECTRIC SERVICE AREA AND PRINCIPAL GENERATING STATIONS AND TRANSMISSION LINES OF SUBSIDIARIES OF HOLDING COMPANY DEFENDANTS**

This exhibit appears in volume VII, pages 2114 and 2115.

Exhibit 113

MAPS OF OPERATING COMPANY SYSTEMS

6185

This exhibit appears in volume VII, pages 2118 to 2159.

Exhibit 114

MAP OF PRINCIPAL GAS OPERATIONS OF SUBSIDIARIES OF HOLDING DEFENDANTS AND OF CERTAIN OTHER COMPANIES

This exhibit appears in volume VII, pages 2160 to 2161.

6186

Exhibit 115 (Continued)

COMMUNITIES SERVED WITH GAS AT RETAIL

December 31, 1935

SUBSIDIARIES OF AMERICAN COMPANY

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Central Arizona Light and Power Co	Glendale	Ariz.	3,663	N.G.	E	—
	*Phoenix	"	47,967	N.G.	E	—
	Tempe	"	2,495	N.G.	E	—
Florida Power & Light Co	*Daytona Beach	Fla	16,598	GM	E	—
	*Lakeland	"	18,554	GM	E	—
	*Miami	"	130,000	GM	—	—
	*Palatka	"	6,500	GM	E	—
Superior Water, Light and Power Co	Superior	Wisc	36,000	GM	E	—
The Montana Power Co	Absarokee	Mont	250	N.G.	E	—
	Anaconda	"	12,494	N.G.	E	—
	Big Timber	"	1,224	N.G.	E	—
	Bozeman	"	6,855	N.G.	E	—
	Butte	"	39,532	N.G.	E	—
	Columbus	"	834	N.G.	E	—
	Deer Lodge	"	3,510	N.G.	E	—
	East Helena	"	1,039	N.G.	E	—
	Helena	"	11,803	N.G.	E	—
	Livingston	"	6,391	N.G.	E	—
	Red Lodge	"	3,026	N.G.	E	—
	Roberts	"	385	N.G.	E	—
	Warm Springs	"	1,768	N.G.	E	—
	Wolf Creek	"	115	N.G.	E	—
	Walkerville	"	2,052	N.G.	E	—

(1) Electric service business indicated by E.
Natural gas business indicated by N.G.
Manufactured gas business indicated by G.M.

* Throughout exhibit indicates location of Gas Works.

Exhibit 115

6190

6191 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF AMERICAN COMPANY—*Continued*

(opposite page)

6192

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Portland Gas & Coke Co	Albany	Ore	5,325	GM	—	—
	Aloha	"	991	GM	—	—
	Ardenwald	"	1,695	GM	—	—
	Aurora	"	215	GM	—	—
	Beaverton	"	1,138	GM	—	—
	Bell	"	850	GM	—	—
	Bell Rose	"	600	GM	—	—
	Bertha	"	410	GM	—	—
	Briarwood	"	150	GM	—	—
	Brooks	"	230	GM	—	—
	Canemah	"	450	GM	—	—
	Capitol Hill	"	478	GM	—	—
	Chemawa	"	100	GM	—	—
	Clackemas	"	607	GM	—	—
	Columbia Beach	"	594	GM	—	—
	Cornelius	"	487	GM	—	—
	Corvallis	"	7,585	GM	—	—
	Dallas	"	2,975	GM	—	—
	Dunthorpe	"	250	GM	—	—
	Errol Heights	"	891	GM	—	—
	Evergreen	"	406	GM	—	—
	Fairview	"	266	GM	—	—
	Forest Grove	"	1,859	GM	—	—
	Garden Home	"	583	GM	—	—
	Gervais	"	254	GM	—	—
	Gilbert	"	300	GM	—	—
	Gladstone	"	1,348	GM	—	—
	Glenmorrie	"	374	GM	—	—
	Green Hill	"	300	GM	—	—
	Gresham	"	1,635	GM	—	—
	Harmony	"	683	GM	—	—
	Hazeldale	"	657	GM	—	—
	Hillsboro	"	3,039	GM	—	—
	Hillsdale	"	247	GM	—	—
	Hubbard	"	330	GM	—	—
	Huber	"	130	GM	—	—

Exhibit 115

6196

6197 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF AMERICAN COMPANY—*Continued*

(opposite page)

6198

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Portland Gas & Coke Co. (Continued)	Independence	Ore	1,248	GM	—	—
	Jennings Lodge	"	1,117	GM	—	—
	Kendall	"	1,234	GM	—	—
	Lake Grove	"	594	GM	—	—
	Lebanon	"	1,851	GM	—	—
	Lynch	"	600	GM	—	—
	Metzger	"	746			
	Middleton	"	752			
	Milwauki	"	1,767			
	Monmouth	"	906	GM	—	—
	Mount Angel	"	979	GM	—	—
	Multnomah	"	585	GM	—	—
	Newberg	"	2,951	GM	—	—
	Oak Grove	"	1,228	GM	—	—
	Oregon City	"	5,761	GM	—	—
	Orenco	"	40	GM	—	—
	Oswego	"	1,285	GM	—	—
	Palatine Hill	"	400	GM	—	—
	Park Place	"	642	GM	—	—
	Park Rose	"	740	GM	—	—
	*Portland	"	301,815	GM	—	Northwestern Elec Co
	Quantana	"	118	GM	—	—
	Reedsville	"	811	GM	—	—
	Rickreall	"	248	GM	—	—
	Riveria	"	150	GM	—	—
	Rockwood	"	1,268	GM	—	—
	Russelville	"	1,280	GM	—	—
	Salem	"	26,266	GM	—	—
	Silverton	"	2,462	GM	—	—
	Sherwood	"	348	GM	—	—
	Sorrento	"	118	GM	—	—
	Sunnyside	"	630	GM	—	—
	Sycamore	"	494	GM	—	—
	Tigard	"	1,737	GM	—	—
	Tobias	"	250	GM	—	—
	Troutdale	"	227	GM	—	—
	Tualatin	"	193	GM	—	—
	Vancouver	"	15,766	GM	—	Northwestern Elec Co
	Ventura	"	120	GM	—	—
	West Linn	"	1,956	GM	—	—
	West Portland	"	611	GM	—	—
	West Salem	"	974	GM	—	—
	Whitford	"	250	GM	—	—
	Wilsonville	"	366	GM	—	—
	Woodburn	"	1,675	GM	—	—
	Woodrow	"	250	GM	—	—

Exhibit 115

6202

Operating Company

Arkansas Power &

6203 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF ELECTRIC COMPANY

(opposite page)

6204

Louisiana Power &

Exhibit 115 (Continued)

Schedule B

SUBSIDIARIES OF ELECTRIC COMPANY

DECEMBER 31, 1935

ting any	Community Name and State		Population Served	Kind of Service (1) Gas	Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
ver & Light Co	Alicia	Ark	342	N.G.	—	—
	Bald Knob	"	1,273	N.G.	E	—
	Batesville	"	4,484	N.G.	E	—
	Dermott	"	2,942	N.G.	E	—
	Eudora	"	2,020	N.G.	E	—
	Hoxie	"	1,448	N.G.	—	—
	Jonesboro	"	10,326	N.G.	—	—
	Judsonia	"	1,123	N.G.	E	—
	Kensett	"	889	N.G.	E	—
	Lake Village	"	1,582	N.G.	E	—
	McGehee	"	3,488	N.G.	E	—
	Newark	"	897	N.G.	E	—
	Newport	"	4,547	N.G.	E	—
	Searcy	"	3,387	N.G.	E	—
	Swifton	"	488	N.G.	—	—
	Tuckerman	"	938	N.G.	—	—
	Walnut Ridge	"	2,007	N.G.	—	—
	Wilmot	"	777	N.G.	E	—
ver & Light Co	Amite	La	2,536	N.G.	E	—
	Arabi	"	3,000	N.G.	E	—
	Archibald	"	150	N.G.	E	—
	Baskin	"	416	N.G.	E	—
	Bastrop	"	5,121	N.G.	E	—
	Bonita	"	507	N.G.	E	—
	Bridgedale	"	1,385	N.G.	E	—
	Collinston	"	473	N.G.	E	—
	Covington	"	3,208	N.G.		—
	Delhi	"	1,043	N.G.	E	—
	Epps	"	300	N.G.	E	—
	Ferriday	"	2,502	N.G.	E	—
	Gallion	"	60	N.G.	E	—
	Gilbert	"	496	N.G.	E	—
	Gretna	"	9,584	N.G.	E	—
	Hammond	"	6,072	N.G.	E	—
	Harvey	"	3,000	N.G.	E	—

Exhibit 11A

6208

6209 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF ELECTRIC COMPANY—*Continued*

(opposite page)

6210

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Louisiana Power & Light Co (Continued)	Hodge	La.	1,367	N.G.	E	—
	Independence	"	1,700	N.G.	E	—
	Jonesboro	"	1,949	N.G.	—	—
	Kenner	"	2,460	N.G.	E	—
	Lake Providence	"	2,867	N.G.	—	—
	Mandeville	"	1,069	N.G.	—	—
	Mangham	"	714	N.G.	E	—
	Marrero	"	2,500	N.G.	E	—
	Metairie	"	10,000	N.G.	E	—
	Oak Grove	"	1,241	N.G.	—	—
	Ponchatoula	"	2,898	N.G.	E	—
	Rayville	"	2,076	N.G.	—	—
	Slidell	"	2,807	N.G.	—	—
	Southport	"	1,200	N.G.	E	—
	Tallulah	"	3,332	N.G.	E	—
	Westwego	"	3,987	N.G.	E	—
	Winnsboro	"	1,965	N.G.	E	—
	Wisner	"	692	N.G.	E	—
New Orleans P S Inc	*New Orleans	La	500,000	N.G.	E	—
Mississippi Power & Light Co	Benton	Miss	300	N.G.	E	—
	Boyle	"	700	N.G.	E	—
	Clarksdale	"	10,050	N.G.	—	—
	Cleveland	"	3,250	N.G.	E	—
	Durant	"	2,500	N.G.	—	—
	Goodman	"	600	N.G.	E	—
	Greenville	"	14,800	N.G.	E	—
	Greenwood	"	11,100	N.G.	—	—
	Indianola	"	3,100	N.G.	E	—
	Jackson	"	48,300	N.G.	E	—
	Kosciusko	"	3,200	N.G.	—	—
	Lake Cormorant	"	200	N.G.	E	—
	Leland	"	2,400	N.G.	—	—
	Lula	"	500	N.G.	E	—
	Lyon	"	300	N.G.	E	—
	Merigold	"	800	N.G.	E	—

Exhibit 115

6214

6215 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF ELECTRIC COMPANY—*Continued*

(opposite page)

6216

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Mississippi Power & Light Co (Continued)	Moorhead	Miss	1,600	N.G.	E	—
	Natchez	"	13,400	N.G.	E	—
	Pearl City	"	150	N.G.	E	—
	Pickens	"	650	N.G.	E	—
	Shelby	"	1,800	N.G.	E	—
	Tunica	"	1,050	N.G.	E	—
	Van Winkle	"	25	N.G.	E	—
	Yazoo City	"	5,600	N.G.	—	—
United Company and Subsidiaries	Abbeville	La	4,356	N.G.	—	—
	Acme	Texas	515	N.G.	—	—
	Aguilares	"	175	N.G.	—	—
	Arkansas Pass	"	2,460	N.G.	—	—
	Arp	"	1,000	N.G.	—	—
	Bastrop	"	1,895	N.G.	—	Texas Power & Light Co.
	Beaumont	"	57,732	N.G.	—	—
	Big Sandy	"	579	N.G.	—	—
	Bloomington	"	600	N.G.	—	—
	Bogalusa	La	14,029	N.G.	—	—
	Brookhaven	Miss	5,288	N.G.	—	Mississippi Power & Light Co.
	Broussard	La	806	N.G.	—	—
	Bruni	Texas	350	N.G.	—	—
	Buda	"	350	N.G.	—	Texas Power & Light Co.
	Buna	"	320	N.G.	—	—
	Bunkie	La	2,464	N.G.	—	—
	Carthage	Texas	2,000	N.G.	—	—
	Center	"	2,510	N.G.	—	—
	Cheneyville	"	835	N.G.	—	—
	Childress	"	7,163	N.G.	—	—
	Chillicothe	"	1,610	N.G.	—	—
	Church Point	La	1,037	N.G.	—	Louisiana Power & Light Co.
	Gibolo	Texas	262	N.G.	—	—
	Cleveland	"	1,422	N.G.	—	—
	Columbia	Miss	4,833	N.G.	—	—
	Converse	Texas	150	N.G.	—	—
	Corrigan	"	600	N.G.	—	—
	Cotton Port	La	1,015	N.G.	—	—
	Crockett	Texas	4,441		—	Texas Power & Light Co
	Crosby	"	700	N.G.	—	Houston Lighting & Power Co.
	Crowley	La	7,656	N.G.	—	—
	Crystal Springs	Miss	2,257	N.G.	—	—
	Dayton	Texas	1,207	N.G.	—	—
	De Quincy	La	3,589	N.G.	—	—
	De Ridder	La	3,747	N.G.	—	—
	D'Hanis	Texas	275	N.G.	—	—
	Dodsonville	"	426	N.G.	—	—

Exhibit 115

6220

6221 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF ELECTRIC COMPANY—*Continued*

(opposite page)

6222

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
United Company and Subsidiaries (Continued)	Edgewood	Texas	761	N.G.	—	Texas Power & Light Co
	Elgin	"	1,823	N.G.	—	" " "
	Elkhart	"	900	N.G.	—	" " "
	Elton	La	742	N.G.	—	—
	Elysian Fields	Texas	275	N.G.	—	—
	Erath	La	895	N.G.	—	—
	Falls City	Texas	250	N.G.	—	—
	Floresville	"	1,581	N.G.	—	—
	Franklin	La	3,271	N.G.	—	—
	Garden Villas	Texas	700	N.G.	—	Houston Lighting & Power Co
	Garrison	"	527	N.G.	—	—
	Gladewater	"	3,000	N.G.	—	—
	Goodrich	"	300	N.G.	—	—
	Grand Saline	"	1,799	N.G.	—	—
	Grapeland	"	1,027	N.G.	—	Texas Power & Light Co
	Gregory	"	350	N.G.	—	—
	Groveton	"	1,046	N.G.	—	—
	Hallettsville	"	1,406	N.G.	—	—
	Hallsville	"	750	N.G.	—	—
	Harrisburg	"	8,660	N.G.	—	—
	Hazlehurst	Miss	2,447	N.G.	—	Mississippi Power & Light Co
	Hebronville	Texas	2,000	N.G.	—	—
	Henderson	"	8,000	N.G.	—	—
	Hessmer	La	338	N.G.	—	—
	Highlands	Texas	350	N.G.	—	—
	Hondo	"	2,000	N.G.	—	—
	Houston	"	278,739	N.G.	—	Houston Lighting & Power Co
	Humble	"	1,800	N.G.	—	" " "
	Huntsville	"	5,028	N.G.	—	—
	Ingleside	"	460	N.G.	—	—
	Iowa	La	113	N.G.	—	—
	Iowa Park	Texas	2,009	N.G.	—	—
	Jacksonville	"	6,748	N.G.	—	—
	Jasper	"	3,393	N.G.	—	—
	Jean	"	320	N.G.	—	—
	Jeanerette	La	2,228	N.G.	—	—
	Jennings	"	4,036	N.G.	—	—

Exhibit 115

6226

6227 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF AMERICAN COMPANY—*Continued*

(opposite page)

6228

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
United Company and Subsidiaries (Continued)	Jonesville	Texas	100	N.G.	—	—
	Karnes City	"	1,141	N.G.	—	—
	Kenedy	"	2,610	N.G.	—	—
	Kilgore	"	6,000	N.G.	—	—
	Kinder	La	962	N.G.	—	—
	Kirbyville	Texas	1,184	N.G.	—	—
	Kirkland	"	680	N.G.	—	—
	Kyle	"	606	N.G.	—	Texas Power & Light Co
	Le Coste	"	400	N.G.	—	—
	La Grange	"	2,354	N.G.	—	Texas Power & Light Co
	Lake Charles	La	15,791	N.G.	—	—
	Laredo	Texas	32,618	N.G.	—	—
	Laurel	Miss	18,017	N.G.	—	—
	LeCompte	La	1,247	N.G.	—	—
	Liberty	Texas	2,187	N.G.	—	—
	Lindale	"	743	N.G.	—	Texas Power & Light Co
	Livingston	"	1,165	N.G.	—	—
	Longview	"	12,000	N.G.	—	—
	Lovelady	"	502	N.G.	—	Texas Power & Light Co
	Lufkin	"	7,311	N.G.	—	" " "
	McComb	Miss	10,057	N.G.	—	Mississippi Power & Light Co
	McQueeney	Texas	150	N.G.	—	—
	Magnolia	Miss	1,660	N.G.	—	Mississippi Power & Light Co
	Mansura	La	1,067	N.G.	—	Louisiana Power & Light Co
	Marksville	"	1,527	N.G.	—	" " "
	Marshall	Texas	16,203	N.G.	—	—
	Mathis	"	1,000	N.G.	—	—
	Memphis	"	4,257	N.G.	—	—
	Merryville	La	2,626	N.G.	—	—
	Mineola	Texas	3,304	N.G.	—	—
	Mirando City	"	1,000	N.G.	—	—
	Mont Belvieu	"	750	N.G.	—	—
	Nacogdoches	"	5,687	N.G.	—	Texas Power & Light Co
	New Braunfels	"	6,242	N.G.	—	—
	Newcastle	"	1,157	N.G.	—	—
	New Iberia	La	8,003	N.G.	—	—

Exhibit 115

6232

6233 SUBSIDIARIES OF NATIONAL COMPANY

SUBSIDIARIES OF ELECTRIC COMPANY—*Continued*

(opposite page)

6234

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
nited Company and Subsidiaries (Continued)	Nordheim	Texas	400	N.G.	—	—
	North Baytown	"	100	N.G.	—	—
	Oakdale	La	3,188	N.G.	—	—
	Oberlin	"	790	N.G.	—	—
	Odem	Texas	842	N.G.	—	—
	Oilton	"	200	N.G.	—	—
	Opelousas	La	6,299	N.G.	—	—
	Orange	Texas	7,913	N.G.	—	—
	Orange Grove	"	1,000	N.G.	—	—
	Overton	"	1,500	N.G.	—	—
	Pleasanton	"	1,154	N G.	—	—
	North Pleasanton	"	369	N.G.	—	—
	Portland	"	300	N.G.	—	—
	Poth	"	500	N.G.	—	—
	Quanah	"	4,464	N.G.	—	—
	Rayne	La	3,710	N.G.	—	—
	Refugio	Texas	2,019	N.G.	—	—
	Riverside	"	300	N.G.	—	—
	Robstown	"	4,183	N.G.	—	—
	Roma	"	1,000	N.G.	—	—
	Rosenberg	"	1,941	N.G.	—	Houston Lighting & Power Co
	Runge	"	1,136	N.G.	—	—
	Rusk	"	2,500	N.G.	—	—
	St. Martinville	La	2,455	N.G.	—	—
	San Augustine	Texas	1,247	N.G.	—	—
	San Marcos	"	5,134	N.G.	—	Texas Power & Light Co
	Saratoga	"	500	N.G.	—	—
	Schertz	"	400	N.G.	—	—
	Schulenburg	"	1,604	N.G.	—	—
	Scottsville	"	100	N.G.	—	—
	Seguin	"	5,225	N.G.	—	—
	Shepherd	"	450	N.G.	—	—
	Sinton	"	1,852	N.G.	—	—
	Smithville	"	3,296	N.G.	—	Texas Power & Light Co
	Sour Lake	"	2,000	N.G.	—	—
	Sulphur	La	1,888	N.G.	—	—
	Summit	Miss	1,157	N.G.	—	Mississippi Power & Light Co
	Swan	Texas	156	N.G.	—	Texas Power & Light Co
	Taft	"	1,792	N.G.	—	—
	Tenaha	"	591	N.G.	—	—
	Terry	Miss	412	N.G.	—	Mississippi Power & Light Co

Exhibit 115

6238

6239 COMMUNITIES SERVED WITH GAS AT RETAIL SUBSIDIARIES OF ELECTRIC COMPANY—*Continued*

(opposite page)

6240

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
United Company and Subsidiaries (Continued)	Timpson	Texas	1,545	N.G.	—	—
	Trinity	"	2,036	N.G.	—	—
	Troup	"	2,000	N.G.	—	—
	Universal City	"	150	N.G.	—	—
	Vernon	"	9,137	N.G.	—	—
	Vinton	La	1,989	N.G.	—	—
	Waskom	Texas	950	N.G.	—	—
	Weimar	"	1,256	N.G.	—	—
	Wellington	"	3,570	N.G.	—	—
	Welsh	La	1,514	N.G.	—	—
	Wesson	Miss	799	N.G.	—	Mississippi Power & Light Co
	West Lake	La	670	N.G.	—	—
	Wichita Falls	Texas	43,690	N.G.	—	Texas Electric Service Co.
	Wills Point	"	2,023	N.G.	—	Texas Power & Light Co
	Yorktown	"	1,882	N.G.	—	—
	Youngsville	La	536	N.G.	—	—
SUBSIDIARIES OF NATIONAL COMPANY						
Pennsylvania Power & Light Co	Ashley	Pa	7,093	GM	E	—
	*Bloomsburg	"	9,093	GM	E	—
	*Carlisle	"	12,596	GM	E	—
	*Columbia	"	11,349	GM	E	—
	Danville	"	7,185	GM	E	—

Exhibit 115

6244

6245 COMMUNITIES SERVED WITH GAS AT RETAIL

SUBSIDIARIES OF NATIONAL COMPANY—*Continued*

(opposite page)

6246

Exhibit 115 (Continued)

Operating Company	Community Name and State		Population Served	Kind of Service (1) Gas	Kind of Service (1) Electric	Subsidiary of American, Electric or National Companies which renders electric service in the same communities
Pennsylvania Power & Light Co (Continued)	Dewart	"	289	N.G.	E	—
	Duboistown	"	1,049	N.G.	E	—
	East Mauch Chunk	"	3,739	GM	—	—
	*Honesdale	"	5,490	GM	E	—
	Jamestown	"	—	GM	E	—
	*Lancaster	"	59,949	GM	E	—
	*Lehighton	"	6,490	GM	—	Lehighton Electric Light & Power Co.
	*Lititz	"	4,368	GM	E	—
	Manheim	"	3,520	GM	E	—
	*Mauch Chunk	"	3,206	GM	—	—
	Milton	"	8,552	N.G.	E	—
	Montgomery	"	1,903	N.G.	E	—
	Montoursville	"	2,710	N.G.	E	—
	*Mount Joy	"	2,716	GM	E	—
	Muncy	"	2,413	N.G.	E	—
	Northumberland	"	4,483	N.G.	E	—
	Seelyville	"	450	GM	E	—
	Selinsgrove	"	2,797	N.G.	E	—
	*Shamokin	"	20,274	GM	E	—
	Shamokin Dam	"	738	N.G.	E	—
	*Shenandoah	"	21,782	GM	E	—
	South Williamsport	"	6,058	N.G.	E	—
	*Sunbury	"	15,626	N.G.	E	—
	*Tamaqua	"	12,936	GM	E	—
	Upper Mauch Chunk	"	2,000	GM	—	—
	Watsontown	"	2,248	N.G.	—	—
	Weissport	"	661	GM	E	—
	*Wilkes Barre	"	86,626	GM	E	—
	*Williamsport	"	45,729	N.G.	E	—
Memphis Power & Light Co	*Memphis	Tenn	264,281	N.G.	E	—
West Tennessee Power & Light Co	Brownsville	Tenn	3,268	N.G.	E	—
	Covington	"	3,462	N.G.	—	—
	Henning	"	651	N.G.	E	—
	Humboldt	"	4,705	N.G.	E	—
	*Jackson	"	22,700	N.G.	E	—
	Ripley	"	2,376	N.G.	E	—

Exhibit 116

6250 **MAPS OF NATURAL GAS OPERATIONS OF UNITED COMPANY AND PORTLAND GAS**

This exhibit appears in volume VII, pages 2162 to 2165.

6251

6252

TRANSCRIPT OF RECORD

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Vol. VII

85796
U. S. S. C.

TRANSCRIPT OF RECORD

Supreme Court of the United States

OCTOBER TERM, 1937

No. 636

ELECTRIC BOND AND SHARE COMPANY, AMERICAN GAS AND ELECTRIC COMPANY AND AMERICAN POWER & LIGHT COMPANY, ET AL., PETITIONERS,

vs.

SECURITIES AND EXCHANGE COMMISSION, HOMER S. CUMMINGS, INDIVIDUALLY AND AS ATTORNEY GENERAL OF THE UNITED STATES, ET AL.

ON WRIT OF CERTIORARI TO THE UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

PETITION FOR CERTIORARI FILED DECEMBER 14, 1937.

CERTIORARI GRANTED JANUARY 3, 1938.

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VOLUME VII.

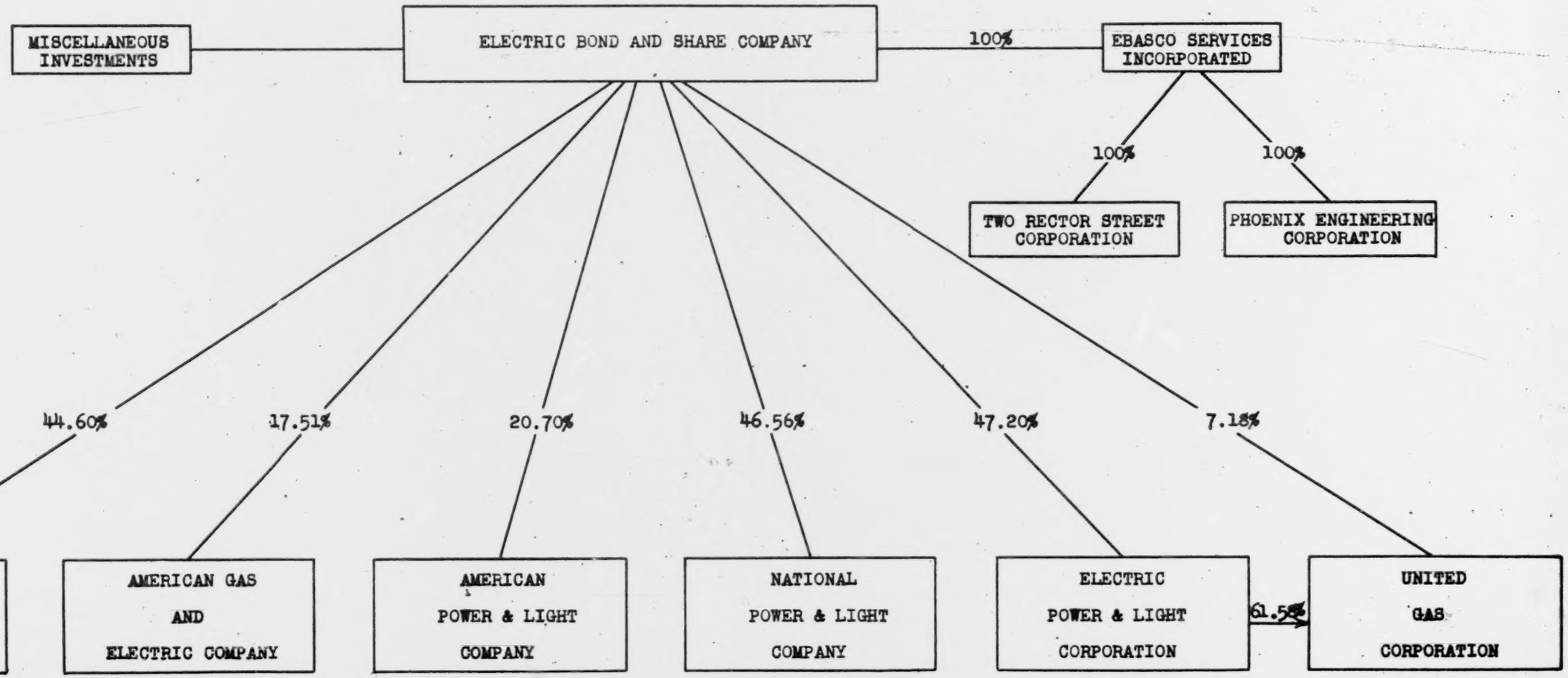
Exhibit 9

Bond and Share System
Corporate Structure
Charts

ELECTRIC BOND AND SHARE SYSTEM

CORPORATE STRUCTURE

As of November 30, 1935



Public Utility Holding Company with Operating Subsidiaries only in Foreign Countries

Public Utility Holding-Operating, and Operating and Non-Utility Subsidiaries; See Sub-exhibit "A" of this Exhibit.

Public Utility Holding-Operating, and Operating and Non-Utility Subsidiaries; See Sub-exhibit "B" of this Exhibit.

Public Utility Holding, Holding-Operating, and Operating and Non-Utility Subsidiaries; See Sub-exhibit "C" of this Exhibit.

Public Utility Holding, Holding-Operating, and Operating and Non-Utility Subsidiaries; See Sub-exhibit "D" of this Exhibit.

Public Utility Holding-Operating, and Operating and Non-Utility Subsidiaries; See Sub-exhibit "E" of this Exhibit.

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Exhibit 9

SUB-EXHIBIT A.

American Gas System Corporate Structure Chart

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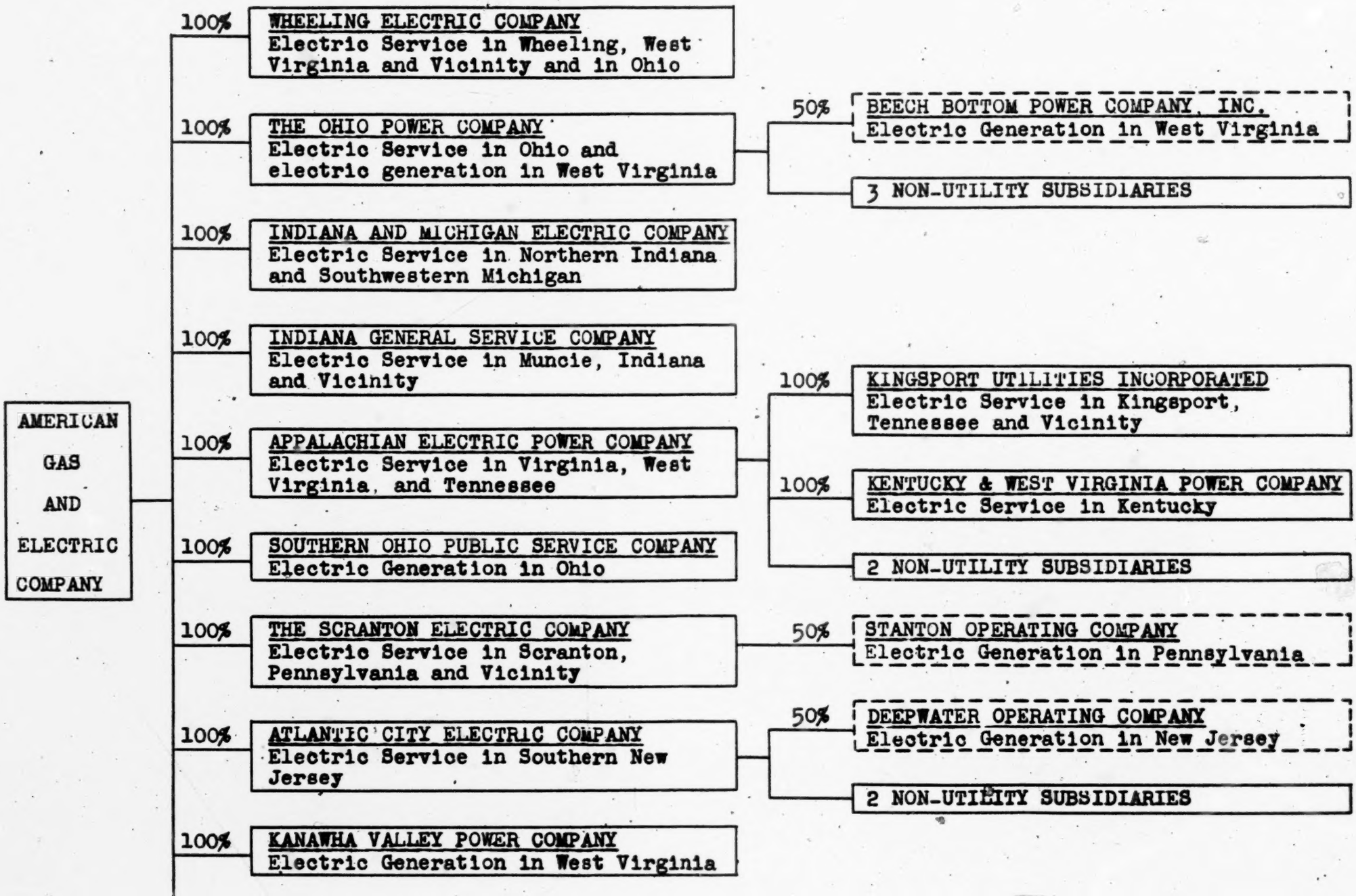
AMERICAN GAS AND ELECTRIC COMPANY

CORPORATE STRUCTURE

As of November 30, 1935



2 NON-UTILITY SUBSIDIARIES

100% KANAWHA VALLEY POWER COMPANY
Electric Generation in West Virginia

6 NON-UTILITY SUBSIDIARIES

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Exhibit 9

SUB-EXHIBIT B.

American Company System Corporate Structure Chart

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AMERICAN POWER & LIGHT COMPANY

CORPORATE STRUCTURE

As of November 30, 1935

AMERICAN POWER & LIGHT COMPANY

- 98.04% — CENTRAL ARIZONA LIGHT AND POWER COMPANY — Electric and Gas Service in Arizona
- 100% — FLORIDA POWER & LIGHT COMPANY — Electric, Gas and Ice Service in Florida
  - 3 NON-UTILITY SUBSIDIARIES
- 90.55% — KANSAS GAS AND ELECTRIC COMPANY — Electric Service in Kansas and Missouri
- 93.03% — MINNESOTA POWER & LIGHT COMPANY — Electric Service in Minnesota
- 99.75% — THE MONTANA POWER COMPANY — Electric, Natural Gas, Heat & Water Service in Montana and Electric Service in Idaho
  - 99.94% — IDAHO TRANSMISSION COMPANY — Electric Service in Idaho (Company merged into The Montana Power Company on April 30, 1936)
  - 2 NON-UTILITY SUBSIDIARIES
- 99.99% — MONTANA POWER GAS COMPANY — Natural Gas Production and Transmission in Montana
- 88.39% — NEBRASKA POWER COMPANY — Electric Service in Nebraska
  - 99.97% — CITIZENS POWER & LIGHT COMPANY — Electric Service in Iowa
- 99.99% — NEW MEXICO ELECTRIC SERVICE COMPANY — Electric Service in New Mexico
- 98.80% — NORTHERN POWER COMPANY — Electric Service in Wisconsin
- 67.63% — NORTHWESTERN ELECTRIC COMPANY — Electric Service in Oregon and Washington
- 94.66% — PACIFIC POWER & LIGHT COMPANY — Electric, Water and Heating Service in Washington and Oregon
  - 99.95% — INLAND POWER & LIGHT COMPANY — Hydro-Electric Generation in Washington and Oregon
- 84.03% — PORTLAND GAS & COKE COMPANY — Gas Service in Portland, Oregon and Vancouver, Washington
  - 1 NON-UTILITY SUBSIDIARY
- 66.56% — SUPERIOR WATER, LIGHT AND POWER COMPANY — Electric, Gas and Water Service in Wisconsin
- 98.96% — TEXAS ELECTRIC SERVICE COMPANY — Electric Service in Texas
- 96.76% — TEXAS POWER & LIGHT COMPANY — Electric Service in Texas
- 99.95% — TEXAS PUBLIC UTILITIES CORPORATION — Electric, Ice and Water Service and

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Exhibit 9

SUB-EXHIBIT C.

National Company System Corporate Structure Chart

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NATIONAL POWER & LIGHT COMPANY

CORPORATE STRUCTURE

As of November 30, 1935

NATIONAL POWER & LIGHT COMPANY

- 100% **BIRMINGHAM ELECTRIC COMPANY** — Electric and Transportation Service in Birmingham, Alabama, and Vicinity
- 93.53% **CAROLINA POWER & LIGHT COMPANY** — Electric and Transportation Service in North and South Carolina
  - 1 NON-UTILITY SUBSIDIARY
- 100% **HOLSTON RIVER ELECTRIC COMPANY** — Electric Service in Eastern Tennessee
- 91.32% **HOUSTON LIGHTING & POWER COMPANY** — Electric Service in Houston and Galveston, Texas, and Vicinity
- 86.79% **MEMPHIS POWER & LIGHT COMPANY** — Electric and Gas Service in Memphis, Tennessee, and Vicinity
- 99.31% **TENNESSEE PUBLIC SERVICE COMPANY** — Electric and Transportation Service in Knoxville, Tennessee, and Vicinity
- 99.66% **LEHIGH POWER SECURITIES CORPORATION** — Holding Company Controlling Companies in Pennsylvania
  - 75.63% **PENNSYLVANIA POWER & LIGHT CO** — Holding-Operating Co: Electric, Gas and Heat Service in Pennsylvania
    - 100% **LEHIGHTON ELECTRIC LIGHT & POWER CO** — Electric Service in Lehighton, Penna.
    - 50% **STANTON OPERATING COMPANY** — Electric Generation in Pennsylvania
    - 26.96% **CONESTOGA TRANSMISSION COMPANY** — Transmission Line in Pennsylvania Leased to P. P. & L. Co.
    - 100% **SUSQUEHANNA GAS COMPANY** — Natural Gas Transmission in Penna.
    - 100% **NORTH BRANCH DEVELOPMENT COMPANY** — Natural Gas Production in Penna.
    - 5 NON-UTILITY SUBSIDIARIES
  - 98.18% **LEHIGH VALLEY TRANSIT COMPANY** — Holding-Operating Co: Transportation Service in Pennsylvania
    - 99.96% **EASTON CONSOLIDATED ELECTRIC CO.** — Holding Company
      - 100% **THE EDISON ILLUMINATING CO OF EASTON** — Electric Properties in Penna. Leased to Metropolitan Edison Co.
      - 4 NON-UTILITY SUBSIDIARIES
    - 5 NON-UTILITY SUBSIDIARIES
- 100% **ROANOKE RIVER POWER COMPANY** — Electric Transmission Line in Virginia and North Carolina
- 99.99% **WEST TENNESSEE POWER & LIGHT COMPANY** — Electric, Natural Gas, Transportation and Ice Service in Jackson, Tennessee, and Vicinity
- 16.32% **MEMPHIS NATURAL GAS COMPANY** — Natural Gas Pipe Line from Louisiana into Tennessee

96.76% TEXAS POWER & LIGHT COMPANY
Electric Service in Texas

99.95% TEXAS PUBLIC UTILITIES CORPORATION
Electric, Ice and Water Service and Natural Gas at Wholesale in Texas

99.68% THE WASHINGTON WATER POWER COMPANY
Electric and Water Service in Washington and Idaho

7 NON-UTILITY SUBSIDIARIES

99.90% CHELAN ELECTRIC COMPANY
Hydro-Electric Generation in Washington and Idaho

2 NON-UTILITY SUBSIDIARIES

16.32% MEMPHIS NATURAL GAS COMPANY
Natural Gas Pipe Line from Louisiana into Tennessee

2 NON-UTILITY SUBSIDIARIES

6274

6275

Exhibit 9

SUB-EXHIBIT D.

Electric Company System Corporate Structure Chart

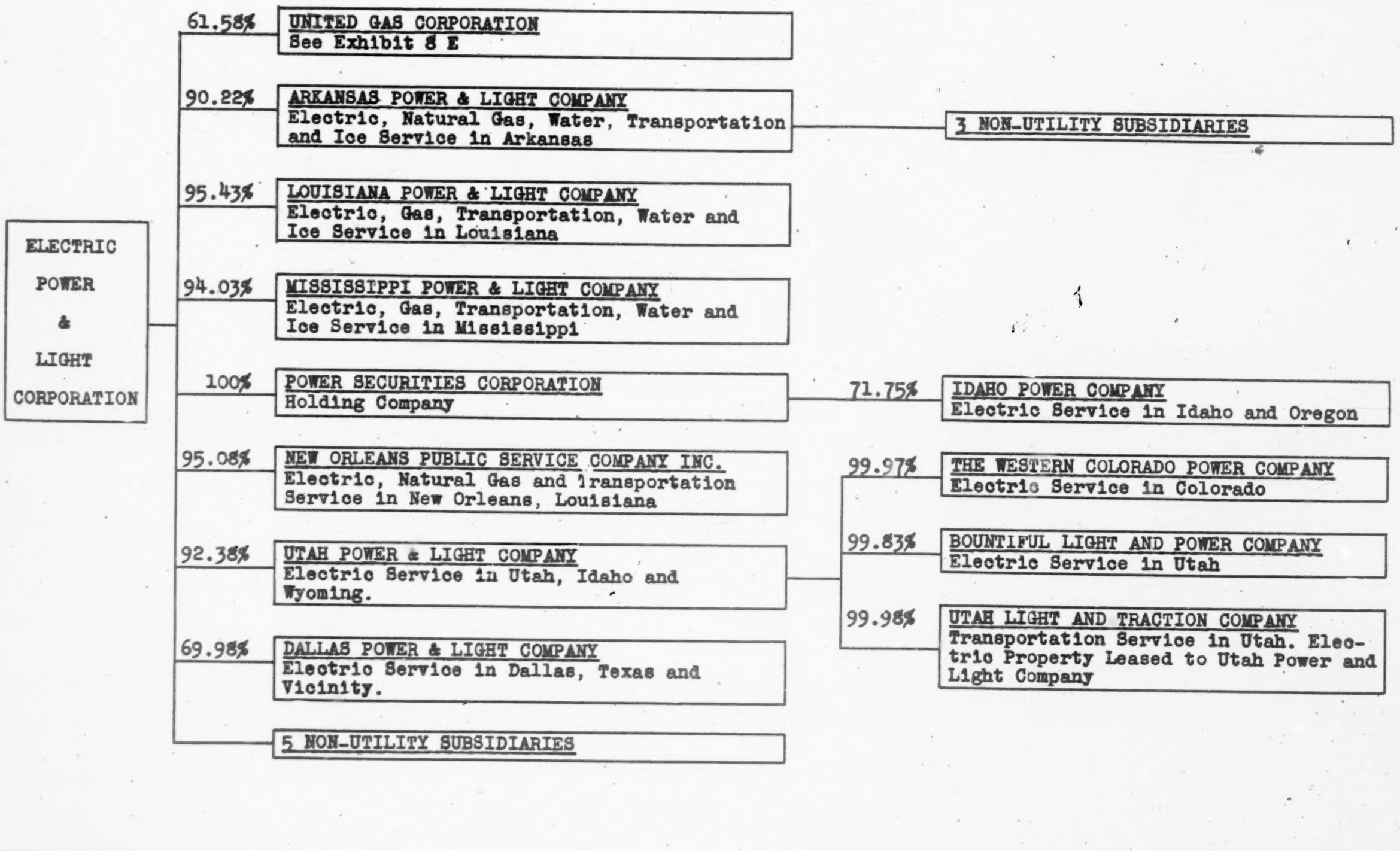
6276

SUB-EXHIBIT D

ELECTRIC POWER & LIGHT CORPORATION

CORPORATE STRUCTURE

As of November 30, 1935



6280

Exhibit 9

6281

SUB-EXHIBIT E.

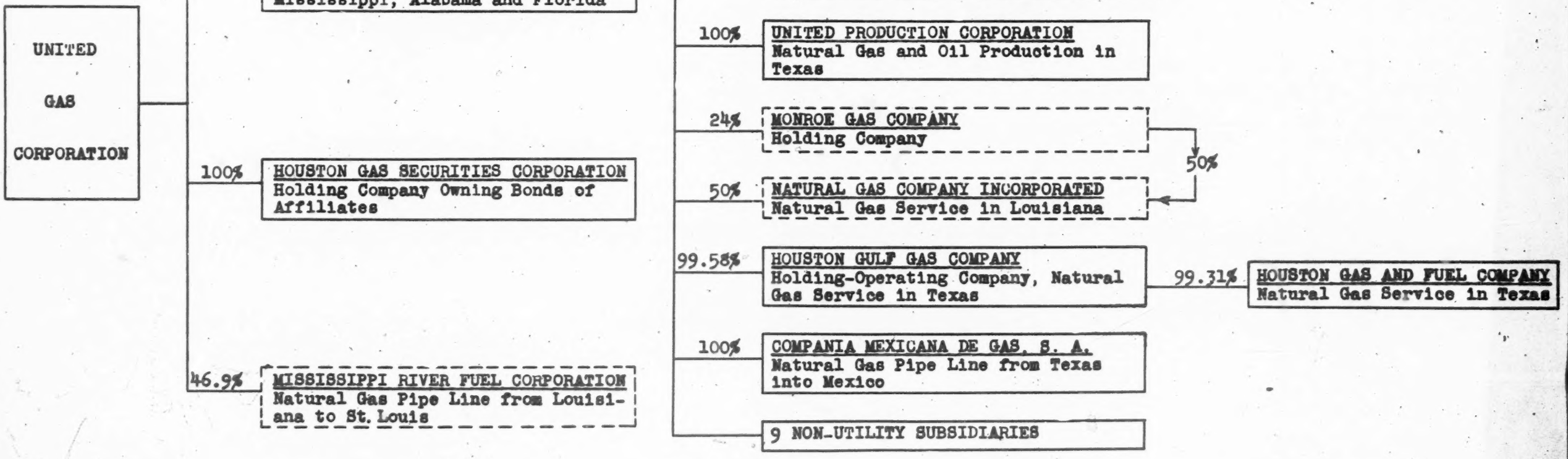
United Company System Corporate Structure Chart

6282

UNITED GAS CORPORATION

CORPORATE STRUCTURE

As of November 30, 1935



6286

Exhibit 46

6287

PERSONNEL CHARTS OF OPERATING COMPANIES.

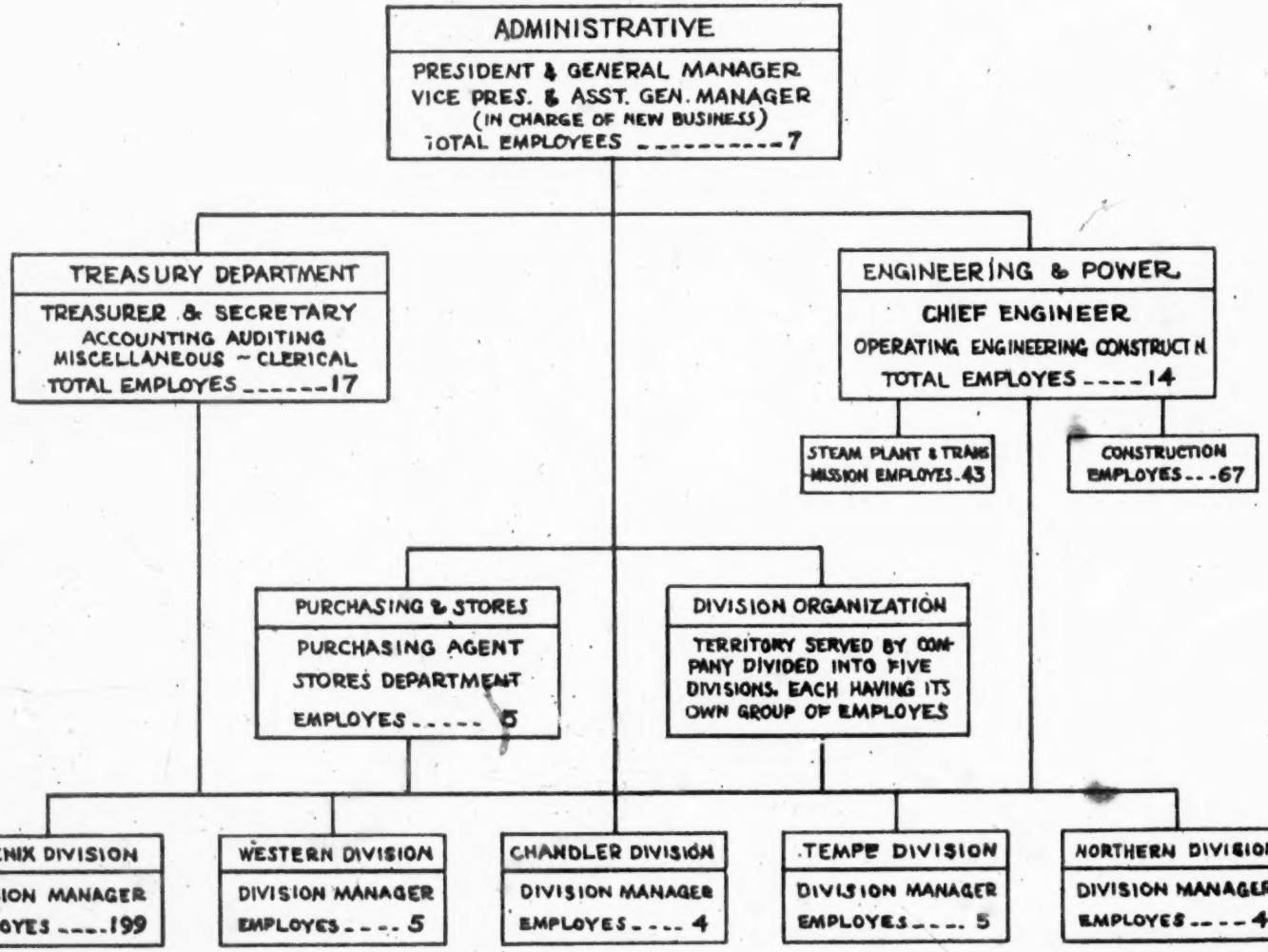
CHART A.

Central Arizona Light & Power Company.

6288

CENTRAL ARIZONA LIGHT & POWER COMPANY

MARCH 31, 1936



6292

6293

Exhibit 46

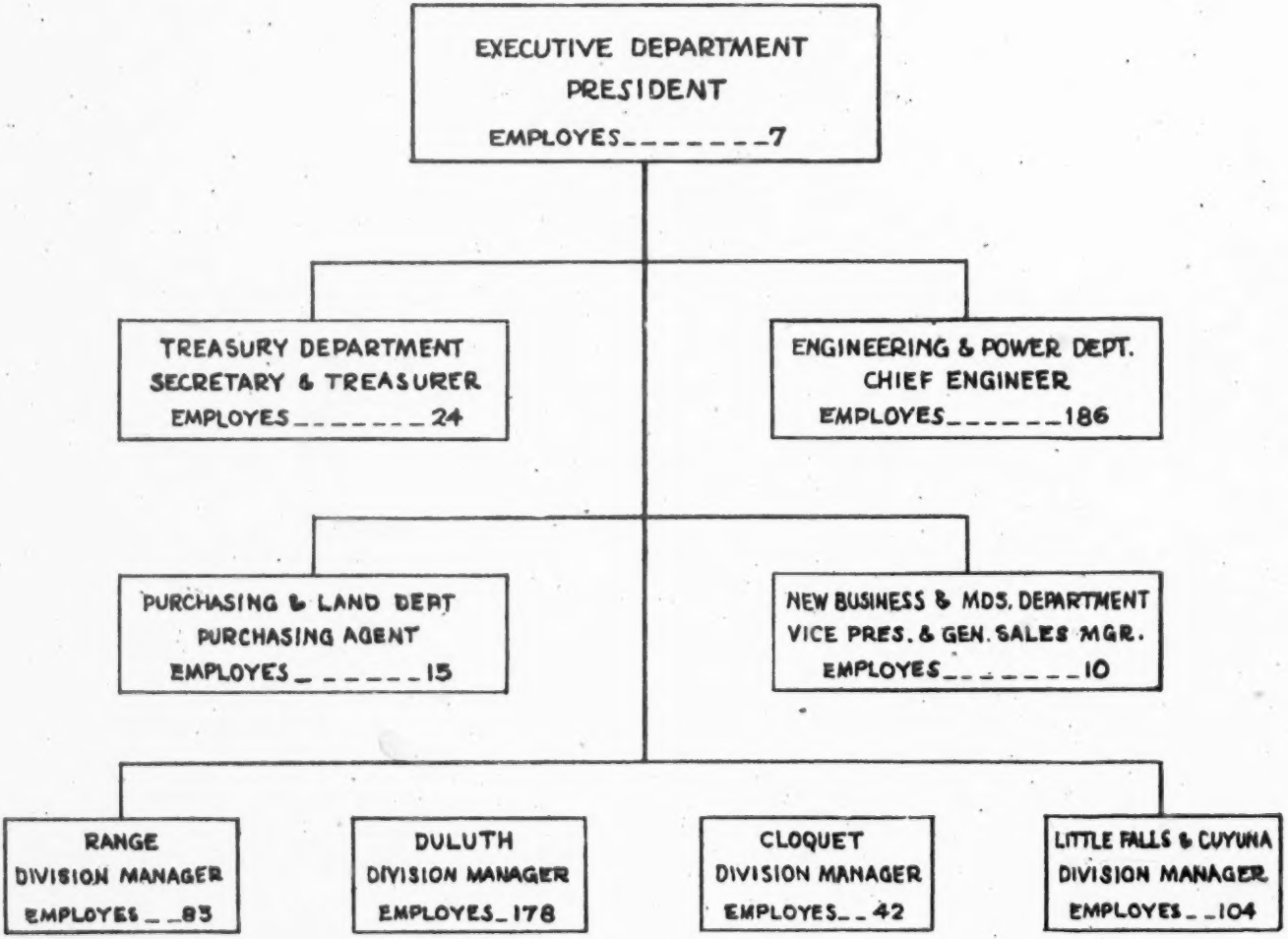
PERSONNEL CHARTS OF OPERATING COMPANIES.

CHART B.

Minnesota Power & Light Company.

6294

MINNESOTA POWER & LIGHT COMPANY
MARCH 31, 1936



6298

Exhibit 46

6299

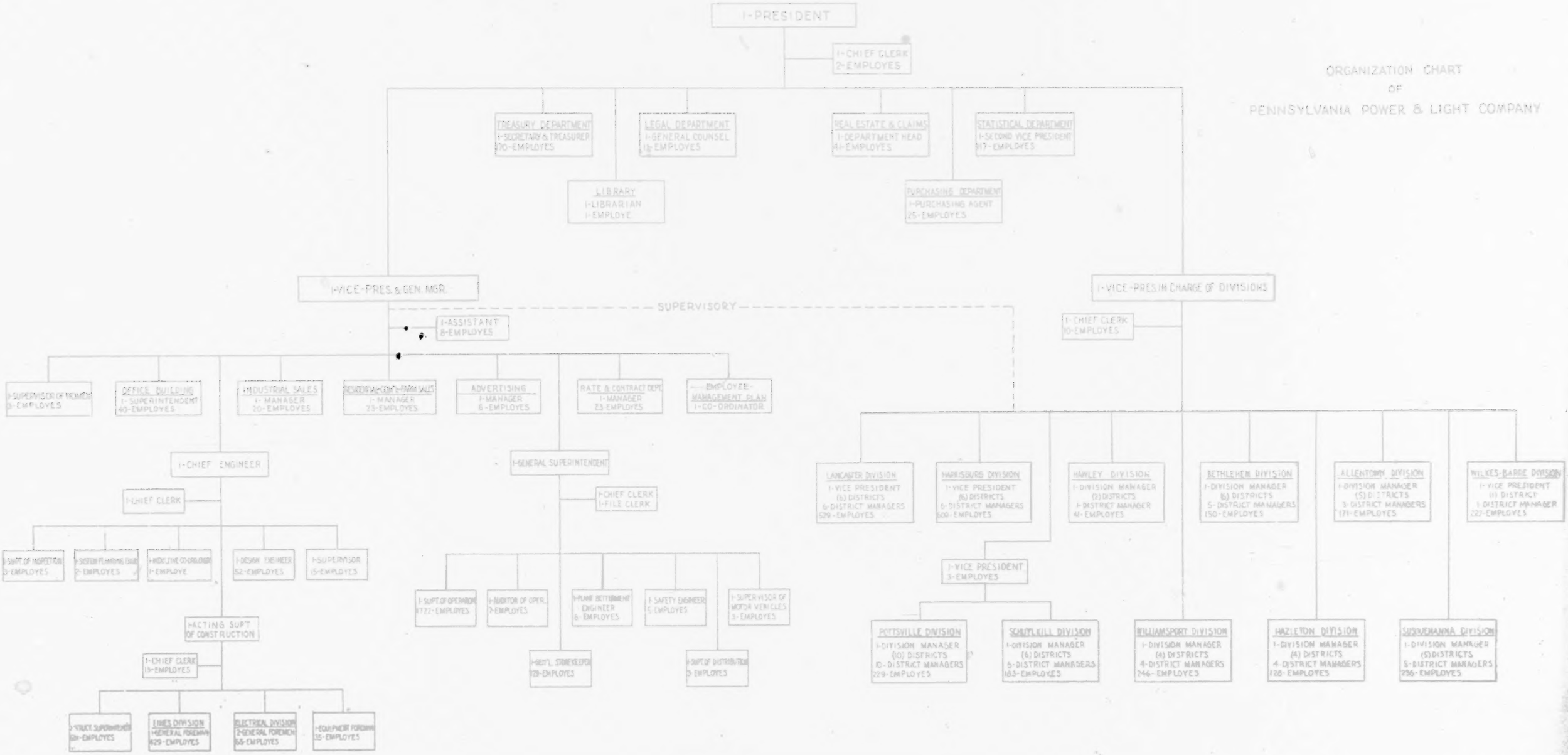
PERSONNEL CHARTS OF OPERATING COMPANIES.

CHART C.

Pennsylvania Power & Light Company.

6300

ORGANIZATION CHART OF PENNSYLVANIA POWER & LIGHT COMPANY



6304

6305

Exhibit 54

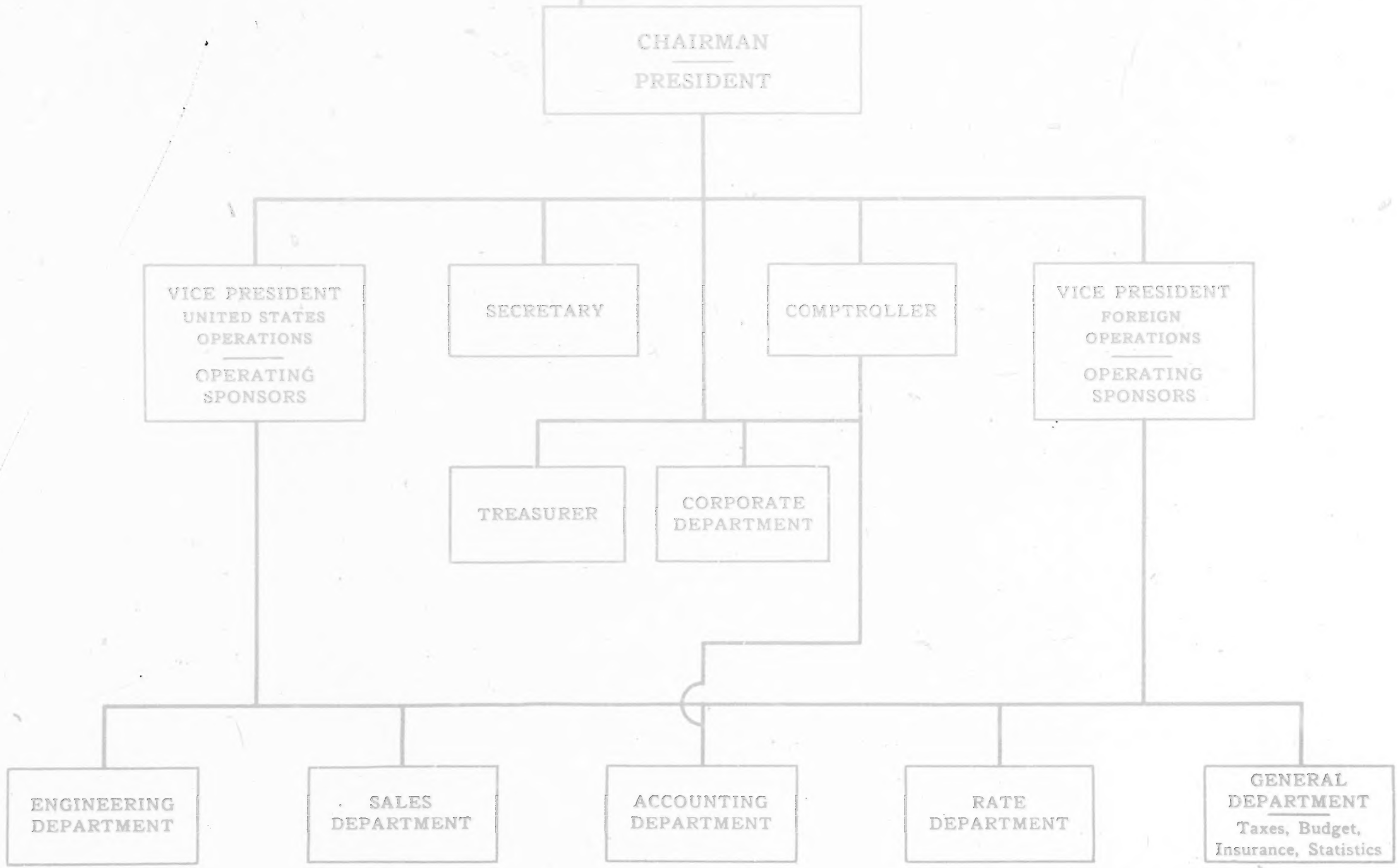
Ebasco and Phoenix

Functional Charts

CHART No. 1.

Functional Chart of Ebasco's Major Departments.

6306



Personnel of Phoenix Engineering Corporation is available to and used by Ebasco Services Incorporated as described in Article XIII of stipulation.

6310

6311

Exhibit 54

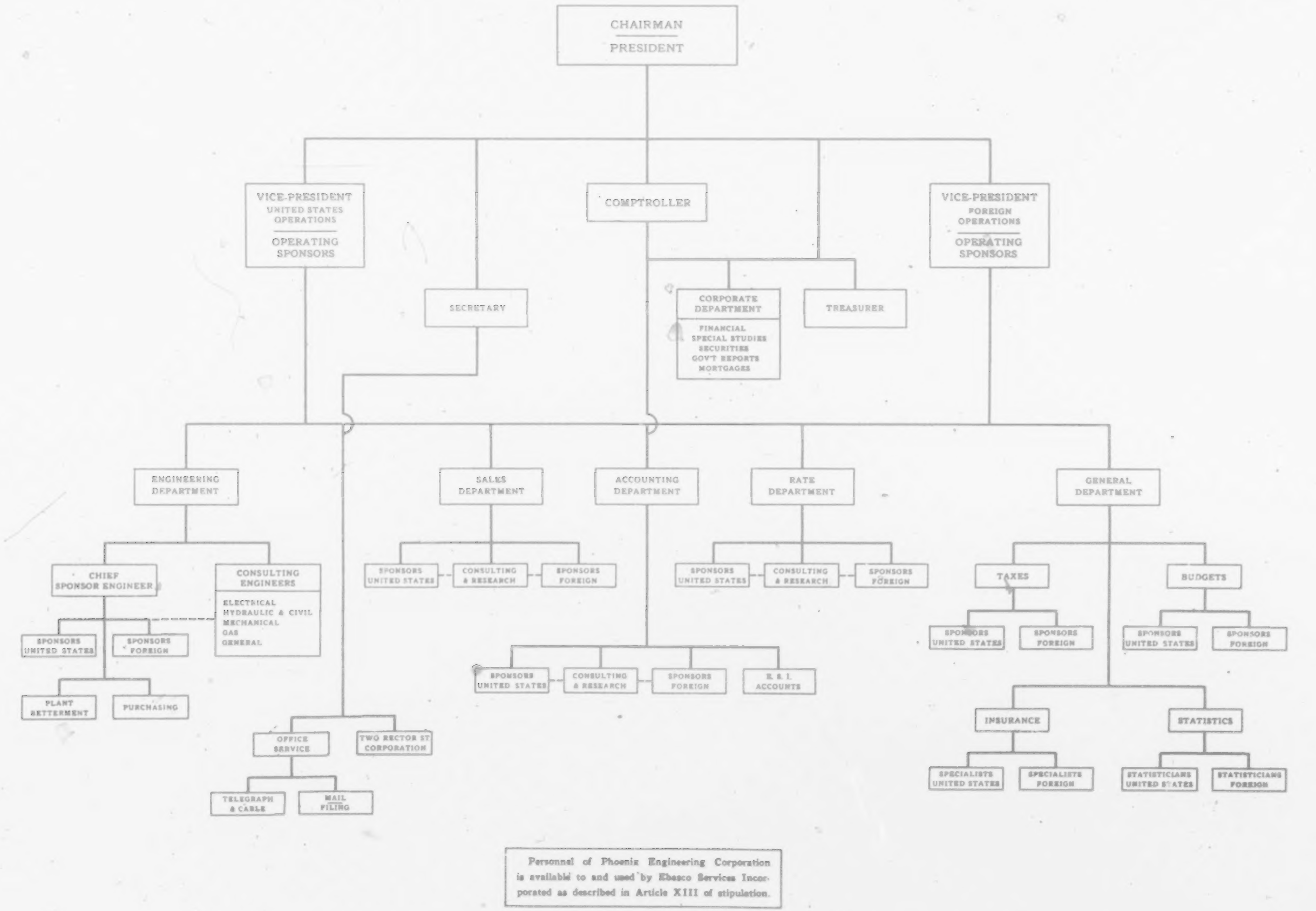
Ebasco and Phoenix
Functional Charts

CHART No. 2.

Detailed Functional Chart, Ebasco.

6312

EBASCO SERVICES INCORPORATED



Personnel of Phoenix Engineering Corporation is available to and used by Ebasco Services Incorporated as described in Article XIII of stipulation.

6316

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Exhibit 54

Ebasco and Phoenix Functional Charts

CHART No. 3.

Functional Chart, Phoenix Engineering Corporation.

6318

PHOENIX ENGINEERING CORPORATION

Equipped to perform special, unusual or occasional engineering and construction work at the specific request of the client operating companies of Ebasco Services Incorporated under the terms of agreements, made for each specific job as it occurs, covering services to be rendered and the charges therefor. The engineers of this corporation are also available to, Ebasco Services Incorporated, at its expense, in connection with certain services rendered by it to client operating companies.

ENGINEERING

Designs, specifications and estimates of cost. Investigations, studies and reports. Valuations and appraisals. Inspections, Examinations and tests.

CONSTRUCTION

Organization and direction of construction operations. Supervision of construction done by general contractors. Purchasing, traffic services, and construction accounting.

ADMINISTRATION

ELECTRICAL ENGINEERING

Designs and plans, specifications, bills of material and estimates of cost:
- Generating stations
- Substations, switchyards
- Transmission lines
- Distribution systems
- Illumination
- Other electric installations

Investigations
Reports
Economic studies

HYDRAULIC & CIVIL ENGINEERING

Designs and plans, specifications, bills of material and estimates of cost:
- Hydro-elec. developments
- Dams, intakes, surge tanks
- Tunnels, conduits, canals
- Foundations
- Buildings
- Structures

Investigations
Reports
Economic studies

MECHANICAL ENGINEERING

Designs and plans, specifications, bills of material and estimates of cost:
- Steam-electric stations
- Diesel-electric stations
- Air conditioning installations
- Steam heat plants and distribution systems
- Other mech. installations

Investigations
Reports
Economic studies

CONSTRUCTION

Public utility construction, including:
- Steam-electric stations
- Hydro-electric stations
- Dams & earth works
- Tunnels, conduits, canals
- Diesel-electric stations
- Elec. transmission lines
- Substations, switchyards
- Elec. distribution systems
- Gas works, gas lines
- Gas distribution systems
- Foundations
- Buildings

GAS ENGINEERING

Designs and plans, specifications, bills of material and estimates of cost:
- Gas lines
- Gas wells & gathering systems
- Gas works, gas holders
- Gas distribution systems
- Gas meters & appliances

Investigations
Reports
Economic studies

VALUATION

Valuations:
- Inventories of property
- Pricing inventories
- Price records & trends
- Intangible elements of value
- Reproduction cost reports
- Historical cost reports
- Depreciation surveys

Allied services:
- Technical assistance in rate proceedings
- Allocation of property and expenses

DESIGN

Detail engineering designs, working drawings, and bills of material, required for construction and reports:
- Civil
  - Hydraulic
  - Structural
  - Architectural
- Electrical
- Mechanical
- Gas
- Maps, etc.

PURCHASING, INSPECTION AND TRAFFIC

Purchasing (for construction):
- Equipment and materials for generation, transmission and distribution facilities.
- Other equipment, materials and supplies

Traffic (for construction):
- Routing-Expediting shipments
- Freight bill audits & claims

Inspection:
- Factory inspections, Examinations & tests

ACCOUNTING

Installation and supervision of field accounting systems and accounting reports in connection with contract construction work.

Insurance in connection with construction

Records of cost and other accounting records

1936

6322

Exhibit 64

6323

Bond and Share
Functional Charts

CHART No. 1.

Functional Chart, Bond and Share Executive and Major Divisions.

Prepared by Bond and Share,
May, 1933

6324

ELECTRIC BOND AND SHARE COMPANY

EXECUTIVE DIVISION

CHAIRMAN

PRESIDENT

OPERATING DIVISION

Services to Client Utility Operating Companies in United States

Supervision of all phases of the operation and development of the client companies' properties and business.

Assistance of executives in major financial and operating problems and extensive detailed services by corporate, engineering, accounting, budget, tax, commercial, rate, secretarial, statistical, treasury, purchasing and insurance departments.

Visits to field by executives specifically assigned to various properties (Operating Sponsors) and by departmental sponsors and specialists for general consultation and for assistance on specific problems.

Conduct of such of client companies' business as can advantageously be handled from New York.

FOREIGN DIVISION

Services to Client Utility Operating Companies in Foreign Countries

Supervision of all phases of the operation and development of the client companies' properties and business.

Assistance of executives in major financial and operating problems and extensive detailed corporate, engineering, accounting budget, tax, commercial, rate, secretarial, statistical, treasury, purchasing and insurance services.

Visits to field by executives specifically assigned to various properties (Operating Sponsors) and by departmental sponsors and specialists for general consultation and for assistance on specific problems.

Conduct of such of client companies' business as can advantageously be handled from New York.

Services to American & Foreign Power Co Inc and Subsidiary Holding Companies

Providing of officers, staff and office accomodations in New York for the administration of their business and for conduct of their routine corporate affairs.

GENERAL DIVISION

Administration and conduct of corporate affairs of Electric Bond and Share Company.

Providing of officers, staff and office accomodations for administration of business of client holding companies in United States and for conduct of their routine corporate affairs.

Advice on and assistance in financial matters, and negotiation and assistance in the sale of securities.

General Attorney, rendering advice as to general legal problems.

Comptroller, having general supervision of accounting procedure and problems of Electric Bond and Share Company and of client operating and holding companies.

Treasurer, having general supervision of fiscal procedure of Electric Bond and Share Company and of fiscal services to client operating and holding companies.

PHOENIX ENGINEERING CORPORATION

A wholly owned separate corporation equipped to perform special, unusual or occasional engineering and construction work for client operating companies upon their request under the terms of agreements made for each specific job as it occurs, covering services to be rendered and charges therefor. The specialists of this corporation are also available to, and at the expense of, the Operating and Foreign Divisions, in connection with the services rendered by such divisions to client companies.

Engineering

Available under Specific Engineering Order

Designs, specifications and estimates

Special investigations and reports

Special studies in efficiency and plant betterment

Valuations and appraisals

Factory inspection and tests

Construction

Available for major construction under specific construction contract

Organization and direction of construction operations including engineering, purchasing, traffic and cost accounting services in connection therewith.

Supervision and inspection of construction work to be done by other general contractors.

6328

Exhibit 64

6329

Bond and Share
Functional Charts

CHART No. 2.

Functional Chart, Bond and Share Operating Division.

Prepared by Bond and Share,
May, 1933

6330

ELECTRIC BOND AND SHARE COMPANY

OPERATING DIVISION

EXECUTIVE DIVISION

Chairman — C E GROESBECK
President — S R INCH

OPERATING DIVISION

Heads of Division — S R INCH, President; P G SAWYER, Vice-President
Administrative Assistant — B H BURKE
Technical Assistant — J E MOORE

Services to Client Utility Operating Companies in United States

OPERATING SPONSORS

Supervision of the operation and development of the properties and business of client utility operating companies in United States. Frequent visits to properties for consultation and conference.

Assistance in major problems of business, operation and organization and in securing of personnel.

Coordination of the services of Electric Bond and Share Company's organization with the requirements of the client companies.

A S GREGLER, Vice President	F SILLIMAN, JR, Vice President	J H GILL	B B PUTNAM	B DAMBEE	H L LICK, C F MO
H L ALLEN R HEAD Arizona Florida New Mexico Texas	R W BOYKIN Montana Oregon Washington K B MacKINNON Colorado Idaho Nevada Utah Wyoming	R H SMITH Alabama Tennessee R A SHARPE Arkansas Louisiana Mississippi	Iowa Kansas Minnesota Nebraska Pennsylvania Wisconsin	N Carolina S Carolina	Alab Flor Lou Miss Texa

CORPORATE DEPARTMENT

Department Head — F A REID, Co-President

Law Sponsors
E G FORD, JR — W W STAPLIN
A J C PRIEST — A C TUFVERSON
V B WALTERS

L N FARNSWORTH — Vice-President
E W HALL — Vice President

Mortgage Transactions — B STUART

— oooOooo —

Mortgages, contracts, franchises, permits, licenses, governmental regulations, tax matters, rate and valuation problems, claims, insurance, patents, etc.

Changes in corporate and financial structure, listing of securities on exchanges, qualifying of securities as legal investments for savings banks etc, acquisition and disposal of properties, and other corporate and financial problems.

Assistance to executives and counsel of client companies in administration of law work.

Collection, analysis and distribution of information of value to law departments of client companies.

Financial programs of client companies, sources of funds, credits and loans, plans for financing, etc.

Conferring with representatives of bankers, insurance companies and with investors interested in the securities of client companies.

Keeping in touch with investment markets for purchase of client company securities for sinking fund requirements.

Transactions under mortgages.

Arranging for appointment of Trustees, Registrars, Transfer Agents and for drafting, engraving and issuance of bonds and stock certificates, handling retirement and redemption of securities.

ACCOUNTING GROUP

General Auditor — B H BREWSTER

TREASURY DEPARTMENT

— oooOooo —

Receipt, deposit and disbursement of New York funds of client companies.

Receipt, safe keeping and delivery of securities of client companies.

Assistance in finding employment for surplus funds.

Collection, analysis and distribution of information as to financial and credit conditions in territories where client companies operate.

STATISTICAL DEPARTMENT

Statistician — J J QUINN

Library and periodicals — M V BROWER

— oooOooo —

Information for dealers in securities, bankers, insurance companies, investors, security holders, newspapers and general public.

Assistance in preparation of annual and interim reports to stockholders and of circulars used in sale of securities.

Furnishing information to, and checking copy submitted by, financial consults, handbooks and periodicals.

Checking and transmittal of data for Census Bureau and other governmental bodies, trade associations and statistical press.

Maintenance of library and data files and furnishing information on matters affecting public utilities and on financial, statistical and economic subjects.

SECRETARIAL DEPARTMENT

Department Head — H L HARTLEY

— oooOooo —

Arrangements for meetings of shareholders, directors and committees of client companies when held elsewhere than at client companies' principal offices. Notifications of action taken at such meetings.

Maintaining original minutes of such meetings and duplicate minutes of stock meetings. Furnishing certified copies or excerpts to Trustees, Transfer Agents, Registrars and others.

Transfer Agent for stocks of client companies in cases where public holdings are small.

General custody of stock certificates and other forms of securities. Transactions in connection with replacement of lost securities.

Historical and corporate data records of client companies.

GENERAL ACCOUNTING DEPT

Department Head — W R LEWIS

— oooOooo —

Preparation of vouchers and checks for disbursement of funds from New York bank accounts of client companies, reconciliation of bank balances, and accounting in connection therewith.

Accounting for Operating Division.

SPONSOR ACCOUNTING DEPARTMENT

Department Head — B A O'NEILL

Sponsor Accountants
H N SCAFF — B WOOD, asst
J L SCHEINIS — B K CALLAGHY, asst
J B KING — A F BELTZ, asst

Chief Field Specialists
Materials and Supplies control — B P McARDLE
Customer Records — A B PRICE
General Accounting — C B SMITH

— oooOooo —

Supervision of client companies' accounting classifications, systems, procedures, forms and organization. Frequent visits to properties for consultation.

Checking and study of financial and operating reports and statements received from client companies, for purpose of bringing significant points to attention of field and of Operating Sponsors.

Preparation of information and statements for submission to shareholders, governmental authorities, stock exchanges, etc.

Group analyses of various accounts and items, covering numerous properties, for purpose of establishing and studying comparative performance and trends, and recommendations or suggestions resulting therefrom.

Accounting research, study of experience in public utility accounting, development of accounting methods, devising accounting forms, and detailed field services in installing and checking accounting systems.

BUDGET DEPARTMENT

Department Head — C EVANS

Budget Sponsors — A W HATCH, C D MURPHY, D S DEAN

— oooOooo —

Supervision of client companies' budgetary systems and procedures. Assistance in preparing Sales, Operating, Construction and Cash Budgets, Cash Control and Conservation Report and schedules of cash receipts and requirements.

Study of operating trends in relation to budget forecasts and plans, and of conditions which may affect earnings and cash. Preparation of budget revisions and projection of budget estimates into future.

Development and analysis of economic data for territory served by client companies for use in budget forecasting.

Assistance, in connection with Corporate Dept, in working out plans for funding and refunding operations and in financial aspects of reorganizations and purchase and sale of properties.

TAX DEPT

Department Head
Asst Dept Head

— oooO —

Tax accounting, [illegible] and other accounting required by tax laws, requirements of tax laws, eligibility in various other tax problems.

Assistance in [illegible] and income tax returns required by Federal [illegible] claims for refunds [illegible] taxes, and claims [illegible] for additional [illegible]

Computing, and [illegible] substantive data in [illegible] preliminary [illegible]

Checking [illegible] disbursements of [illegible] taxes.

Assistance in [illegible] taxes, license, [illegible] returns, in dispute matters, and in [illegible]

COMPANY

ties
States.
rgani-
mpany's

H L DICKERSON
C F MOULTON

Natural Gas

Alabama
Florida
Louisiana
Mississippi
Texas

ENGINEERING DEPARTMENT

Department Head — A C CLOGHER *Chief Engineer*

Sponsor Engineers

G I BRANCH	H E McDONELL
J A BRUNDIDGE	H L MELVIN
R B CONGILL	L P MOMPELL
E C CURTIS	R F PEARMAN
C E HOWELL	E M PITTERSON

Property and Service Records — J P READ

Consulting Engineers

Electrical Engineer	A E SILVER
Mechanical Engineer	L ELLIOTT
Civil and Hydraulic Engineer	A C CLOGHER
Gas Engineer	S P COBB

Studies and estimates with respect to development programs for client companies' systems. General plans for extensions of plants and facilities and interconnection with other systems.

Consultation and studies with respect to operating difficulties, methods of supplying increased loads at minimum costs, engineering features of contracts, etc. Checking of designs and specifications.

Consultation and studies with respect to plant betterment and efficiency.

Dealings with manufacturers with respect to equipment designs and difficulties with or defects in equipment.

Engineering research and analysis with respect to development and revisions of design standards to reduce cost or improve service, improvements in operating practice, new uses for electricity and gas.

Representation of interests of client companies in connection with formulation and revision of national codes and standards.

Development program, extension and rehabilitation plans and policies, construction budgets.

Review of client companies engineering practices, design standards and technical and cost records. Studies of operating methods with view to simplifying organization and reducing costs.

Assistance from New York and in field in engineering and operating problems.

Physical property data and service statistics for client companies.

Frequent visits to properties for consultation. Assisting Operating Sponsors in their consideration of engineering and operating aspects of client companies' affairs. Coordinating services of Electric Bond and Share Company's engineering staff with local requirements.

TAX DEPARTMENT

Department Head — H F LASHER
Assist Dept Head — E R GILPIN

Tax accounts, adjustments of reserves and other accounts as allowed or required by tax laws and rulings, etc. Requirements of tax legislation, taxability in various transactions, and other tax problems.

Assistance in connection with Federal income tax returns, reports required by Federal tax authorities, claims for refunds and abatements of taxes, and claims against client companies for additional tax assessments.

Compiling, and keeping up to date, statistical data in connection with depreciation deductions for tax purposes.

Checking records and reporting disbursements of interest upon tax-free issues.

Assistance in compiling State income, franchise, franchise and other tax returns, in disputed State taxation matters, and in local tax problems.

COMMERCIAL DEPARTMENT

Department Head — H F SMIDDY
Field Specialists — J F DEIGE
J M FIESTER

Consultation on all phases of sales policies and activities. Frequent visits to properties for conferences, for study of sales programs, results and prospects, and for interchange of information.

Assistance in campaigns and special efforts to secure new customers, increase use of service by present customers, retain business which is threatened, and regain business lost.

Assistance in competitive situations involving other sources of power and energy.

Participation in handling of important customer negotiations and other commercial matters. Contact with home offices of customers or prospective customers, where such offices are located outside of client companies' territory.

Regular information service with respect to new uses of utility service, new domestic and commercial appliances using electricity or gas, and developments in new business and merchandising methods and experiences.

RATE DEPARTMENT

Department Head — L R LEFFERSON

Rate Sponsors

P ALEXANDER, Jr	J G LIECTY
P M BARTON	A B LUNDSTROM
W H BRUGMAN	R W MONTGOMERY
C E KELLER	C M TURNER
R E KELLER	R H VAN VALKENBURG

Power Specialist — C H BEKER
Lighting Specialist — R S QUIG
Gas Specialist — A B LUNDSTROM

Analysis of rate structures, guidance in rate policies, coordination and revision of rate structures and development of rate schedules.

Assistance in connection with competitive situations, power contracts, service regulations, etc.

Analysis of service characteristics and needs of various classes of customers, and of conditions and costs of supplying service.

Assistance in preparation and presentation of information, studies and exhibits required for or by regulatory authorities.

Rate research, maintenance of files of rates in effect throughout the country, analysis and dissemination of information with respect to rates and rate making.

PURCHASING DEPARTMENT

Purchasing Agent — T K WHITE

Traffic — T B TITSWORTH

Negotiation of quantity purchase agreements, following purchases thereunder and checking documents.

Acting as New York Purchasing Agent of client companies for specific purchasing.

Assistance in local purchasing.

Following factory production on orders placed for or by client companies.

Routing, classifying and tracing shipments, checking freight bills, claims for losses and refunds, local freight rate problems.

Appraisal Exchange for reconditioned equipment.

Dissemination of information of value to local purchasing agents.

INSURANCE DEPARTMENT

Department Head — I M CARPENTER

Field Engineers — B B SIMS
L F WAGNER

Negotiation of policy contracts, blanket and individual, including group life, fire, public liability and property damage, fidelity and other bonds, burglary, accident, automobile, compensation and other forms.

Field surveys of physical property for proper coverage, and rating of risks with local rating bureaus to secure consistent classifications and rates.

Assistance in handling of insurance routine and in adjustment of claims, losses and subrogation items.

Consultation on local insurance problems.

Actuarial studies, analysis of insurance laws and regulations, and distribution of insurance information.

6334

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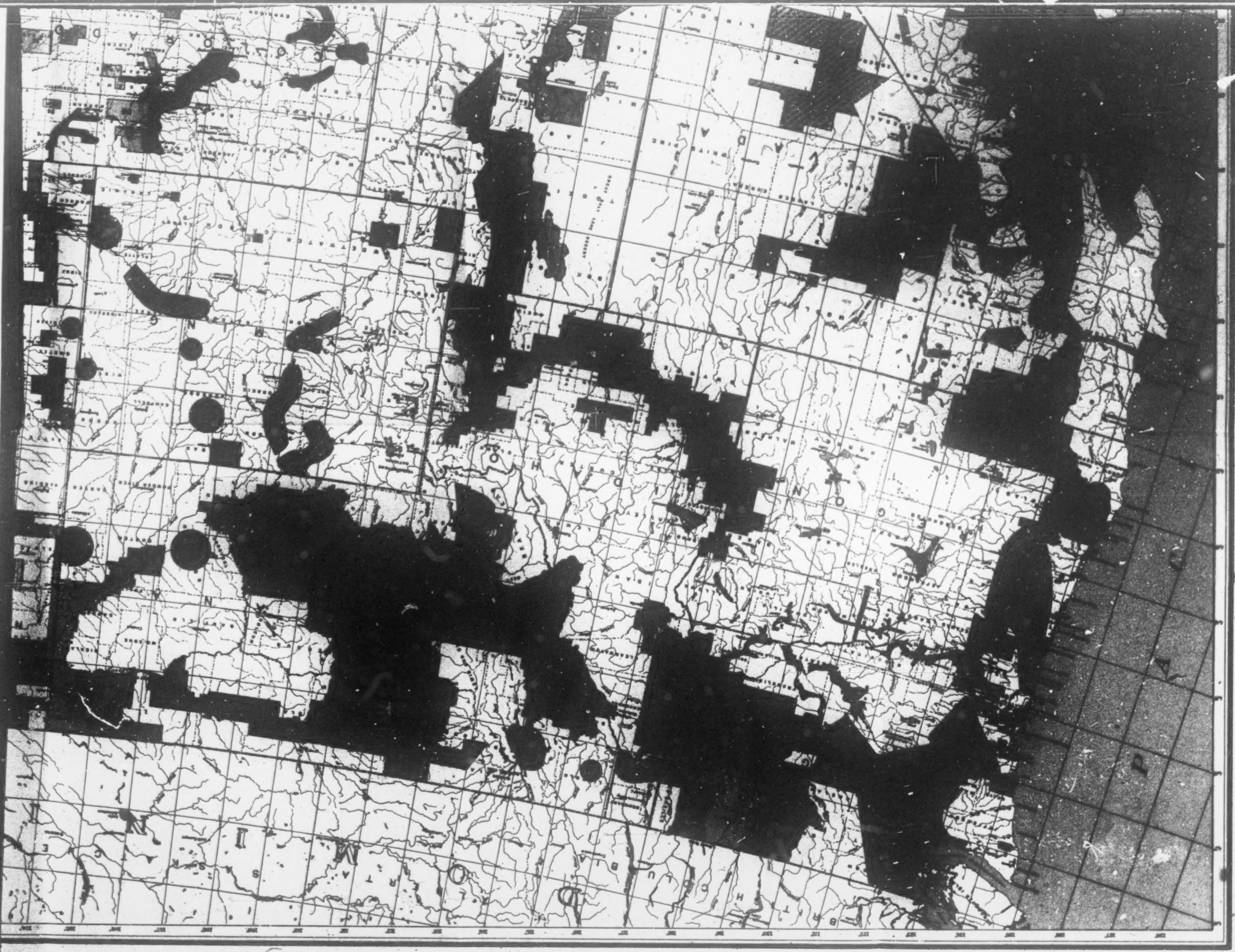
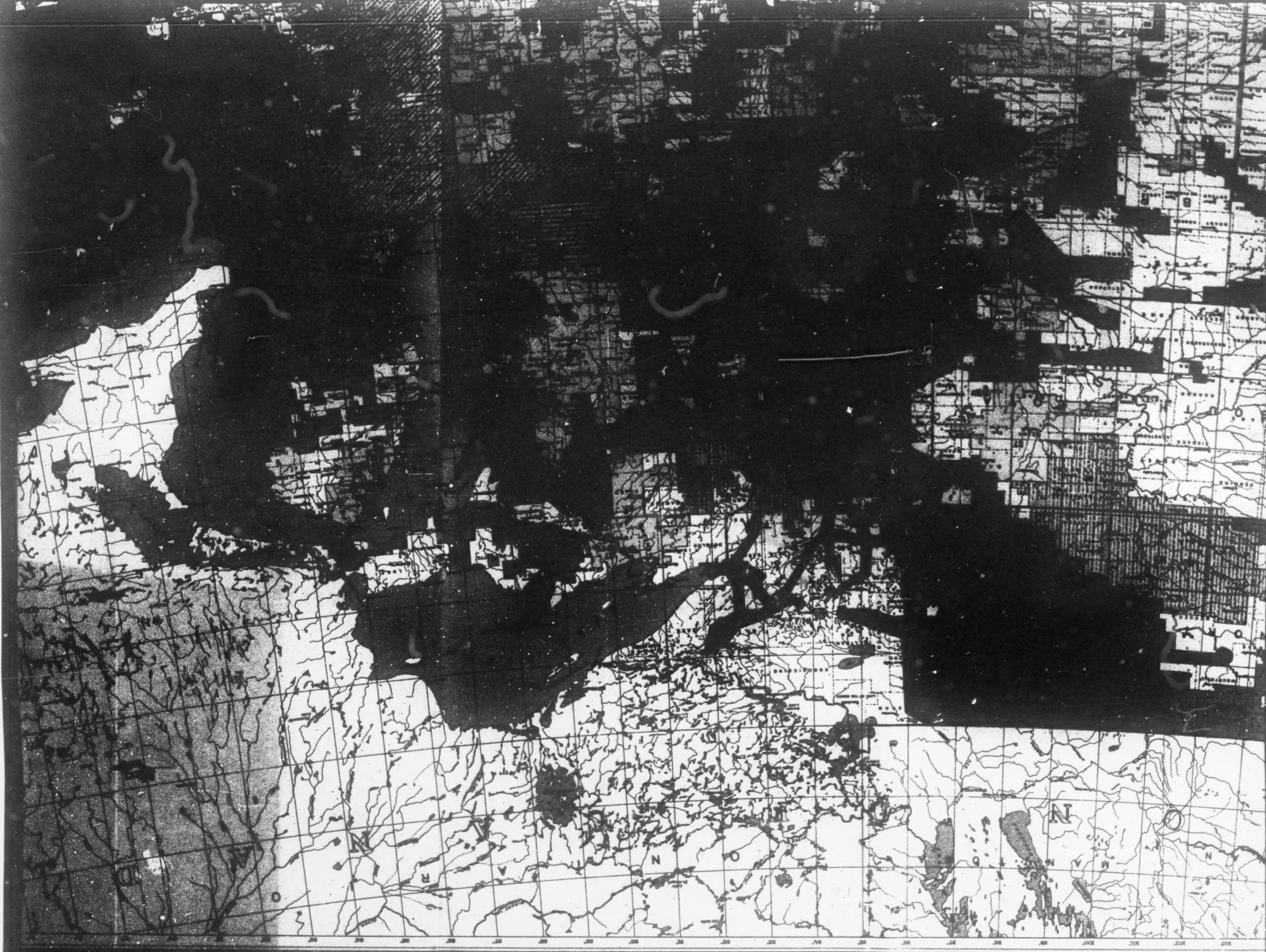
Exhibit 110

Service Areas of the Principal Electric Utility Systems in the United States.

6336

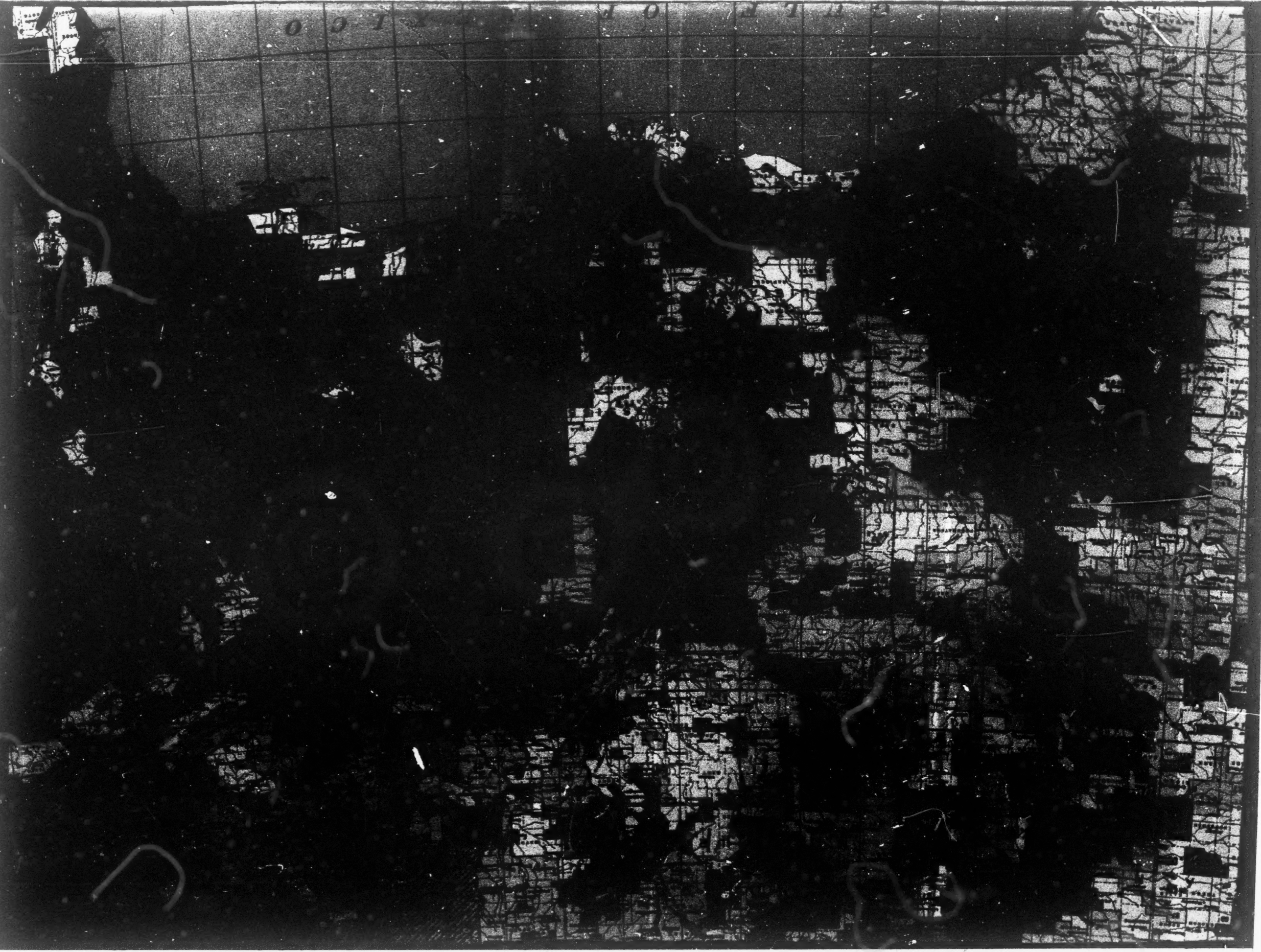




FEDERAL POWER COMMISSION

NATIONAL POWER SURVEY

SERVICE AREAS



LEGEND

(Showing States in which Electric Service is Furnished)

AMERICAN ELECTRIC POWER CORP.

AMERICAN GAS & ELECTRIC CO.
(AFFILIATED WITH ELECTRIC BOND & SHARE CO.)

AMERICAN POWER & LIGHT CO.
(ELECTRIC BOND & SHARE CO.)

APPALACHIAN POWER CO., INC.

ASSOCIATED GAS & ELECTRIC CO.
INCLUDING NEW ENGLAND GAS & ELECTRIC ASSOCIATION

BOSTON EDISON CO.

CENTRAL HUDSON GAS & ELECTRIC CORP.
(AFFILIATED WITH NIAGARA MOHAWK POWER CORP.)

CENTRAL PUBLIC UTILITY CORP.

COMMONWEALTH EDISON CO.

COLUMBIA GAS & ELECTRIC CORP.

COMMONWEALTH & SOUTHERN CORP., THE

COMMUNITY POWER & LIGHT CO.

CONSOLIDATED GAS COMPANY OF NEW YORK

CONSOLIDATED GAS, ELECTRIC LIGHT AND POWER CO. OF BALTIMORE AND AFFILIATES

DETROIT EDISON CO., THE

DUKE POWER CO.

EASTERN SHORE PUBLIC SERVICE CO.

EMPIRE UTILITIES ASSOCIATES

EUROPE ELECTRIC ILLUMINATING CO. OF BOSTON, THE

ELECTRIC POWER & LIGHT CORP.
(ELECTRIC BOND & SHARE CO.)

FEDERAL ELECTRIC LIGHT CO.

INTERMOUNTAIN UTILITIES CORP.

IOWA ELECTRIC LIGHT & POWER CO.
AND AFFILIATES

IOWA-ILLINOIS GAS & ELECTRIC CO.

KENTUCKY UTILITIES CO.

KINGSPORT UTILITIES, INC.

LOUISVILLE GAS & ELECTRIC CO.

MIDDLE SOUTH UTILITIES, INC.

MONONGAHELA POWER CO.

NEVADA POWER CO.

NEW ORLEANS PUBLIC SERVICE INC.

NORTHERN INDIANA PUBLIC SERVICE CO.

OHIO EDISON CO.

OHIO POWER CO.

PENNSYLVANIA POWER CO.

PIEDMONT NORTHERN RAILWAY CO.

POTOMAC EDISON CO., THE

SAN ANTONIO PUBLIC SERVICE CO.

SOUTHERN CALIFORNIA EDISON CO.

SOUTHERN COMPANY, THE

SOUTHWESTERN ELECTRIC POWER CO.

SOUTHWESTERN GAS & ELECTRIC CO.

SOUTHWESTERN PUBLIC SERVICE CO.

TEXAS ELECTRIC SERVICE CO.

TEXAS POWER & LIGHT CO.

TEXAS UTILITIES CO.

TUCSON GAS, ELECTRIC LIGHT & POWER CO.

UNION ELECTRIC CO.

UNITED GAS CORP.

UNITED GAS PUBLIC SERVICE CO.

UTAH POWER & LIGHT CO.

WEST PENN POWER CO.

WESTERN MASSACHUSETTS COMPANIES

WISCONSIN ELECTRIC POWER CO.

WISCONSIN MICHIGAN POWER CO.

WISCONSIN PUBLIC SERVICE CORP.

WISCONSIN-MINNESOTA LIGHT & POWER CO.

WISCONSIN POWER & LIGHT CO.

WISCONSIN PUBLIC SERVICE CORP.

WISCONSIN VALLEY IMPROVEMENT CO.

WISCONSIN VALLEY IMPROVEMENT CO.

WISCONSIN VALLEY IMPROVEMENT CO

FEDERAL POWER COMMISSION

FRANK R. McNINCH, CHAIRMAN

BASIL MANLY, Vice-Chairman

HERBERT J. DRANE, Commissioner CLAUDE L. DRAPER, Commissioner CLYDE L. SEAVEY, Commissioner

NATIONAL POWER SURVEY

BASIL MANLY, COMMISSIONER IN CHARGE

THOMAS R. TATE, Director LESTER S. READY, Chief Consulting Engineer

SERVICE AREAS

OF THE

PRINCIPAL ELECTRIC UTILITY SYSTEMS

IN THE UNITED STATES

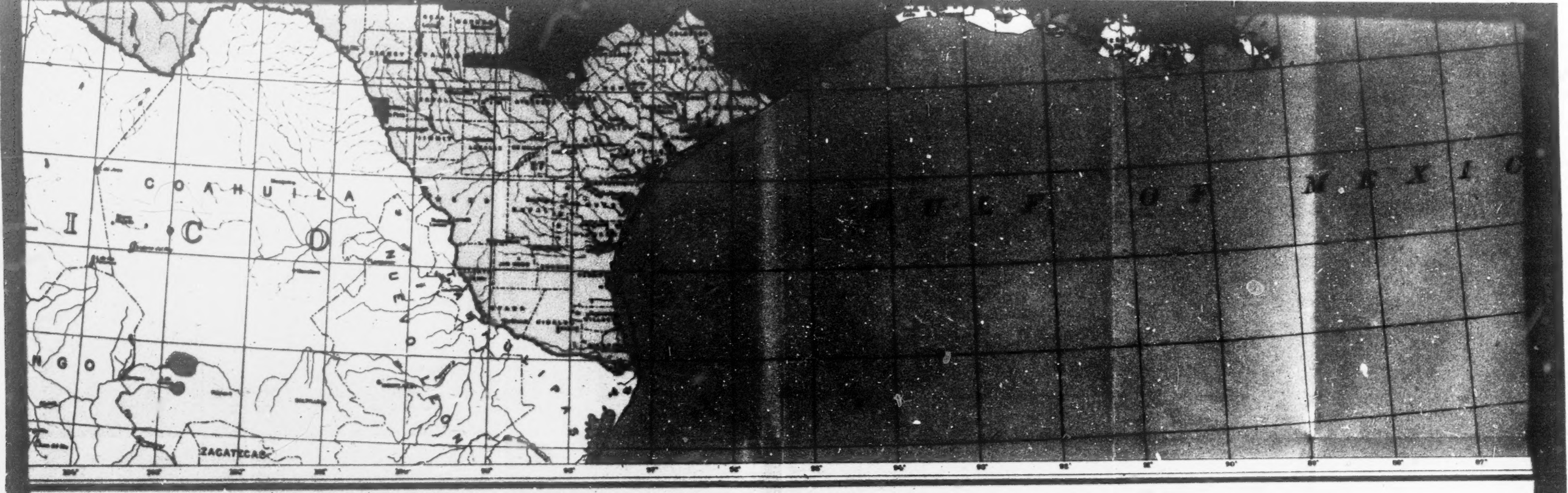
BASED ON REPORTS AND MAPS FILED BY THE UTILITY COMPANIES
AND THE MUNICIPAL SYSTEMS

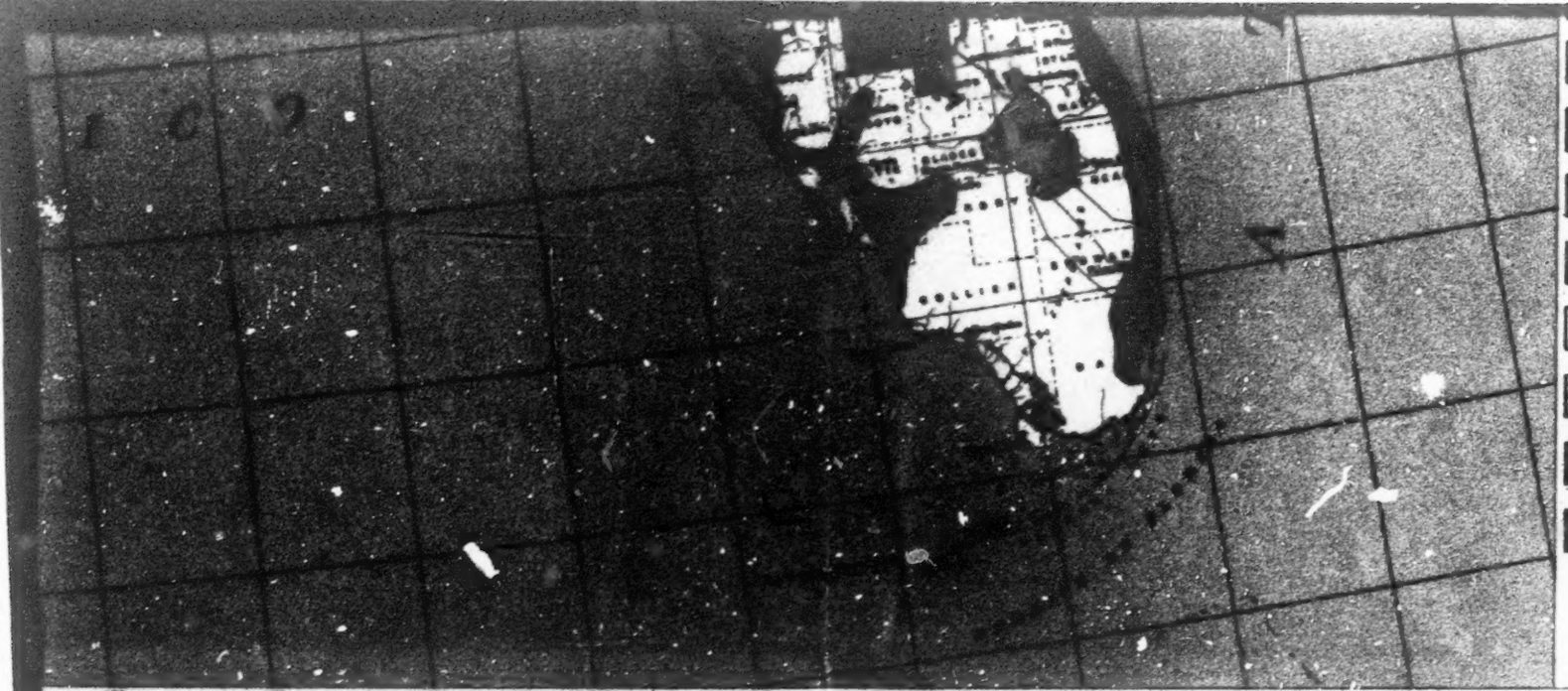
COMPILED UNDER DIRECTION OF FAYETTE B. WARNER, CHIEF OF RESEARCH DIVISION

Scale unless

1935

Changes subsequent to August 31, 1935, are not indicated


COAHUILA
ZACATECAS



INTERNATIONAL UTILITIES CORP.

IOWA ELECTRIC LIGHT & POWER CO. AND AFFILIATES

* JERSEY CENTRAL POWER & LIGHT CO.

LONG ISLAND LIGHTING CO.

27 * MIDDLE WEST UTILITIES CO.

* MIDLAND UNITED CO.

* MUNICIPAL SERVICE CO.

NATIONAL POWER & LIGHT CO. (ELECTRIC BOND & SHARE CO.)

* UNITED PUBLIC UTILITIES CORP.

UTILITIES POWER & LIGHT CORP.

UTILITY SERVICE CO.

* VIRGINIA PUBLIC SERVICE CO.

WESTERN MASSACHUSETTS COMPANIES

WESTERN LIGHT & TELEPHONE CO.

OTHER SYSTEMS (SMALL SYSTEMS SERVING AREAS OF APPRECIABLE SIZE)

LARGE MUNICIPAL SYSTEMS

*Formerly part of the Insull Group.

NOTE—Isolated communities are shown only where served by large utility systems or large municipal plants.
Areas with more than one identification number indicate overlapping claims.

84° 83° 82° 81° 80° 79° 78° 77° 76° 75° 74° 73°

36° 24° 23°

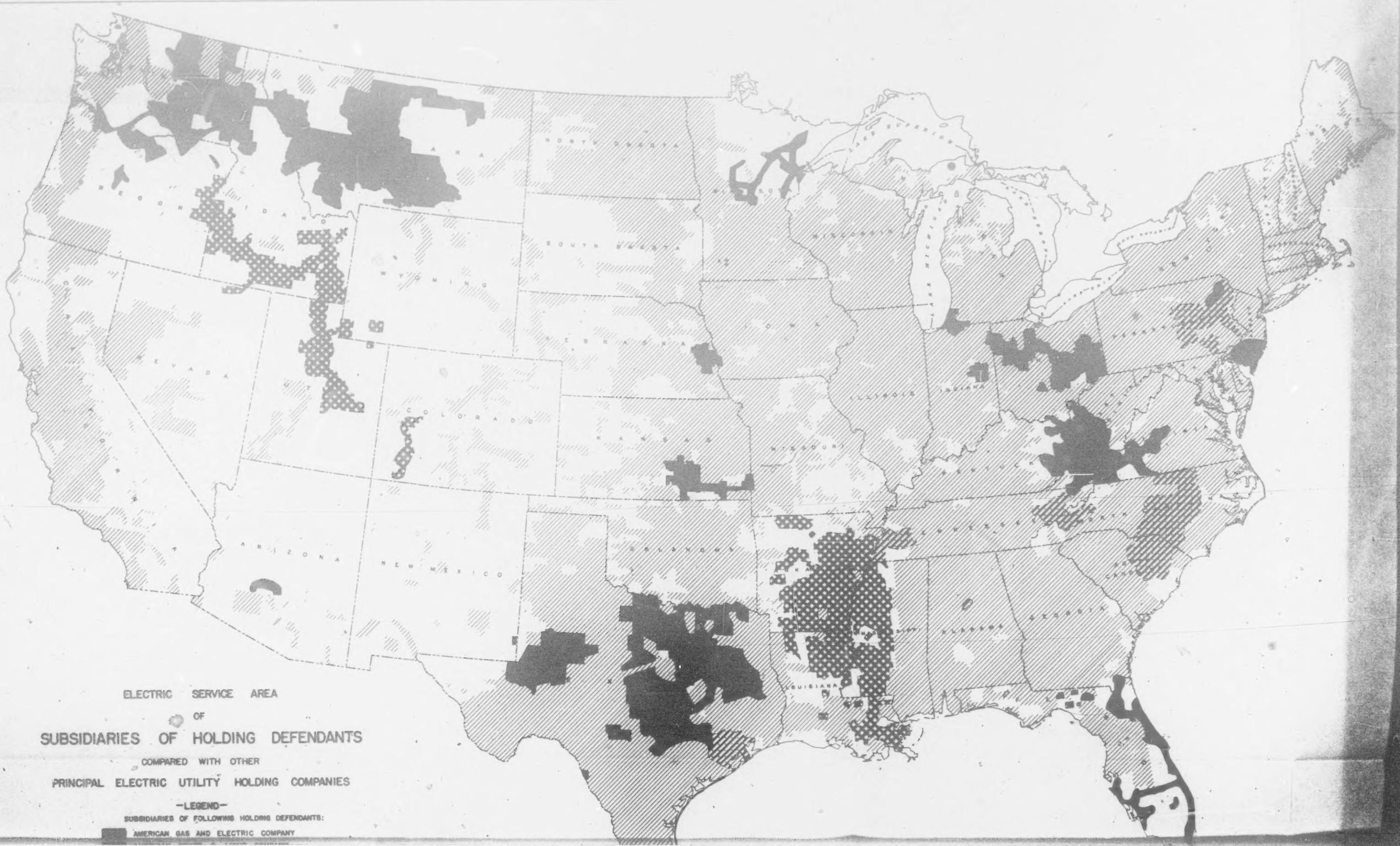
Exhibit 112A

6341

MAP No. 1.

Electric Service Area of Subsidiaries of Holding Defendants Compared With Other Principal Electric Utility Holding Companies.

6342


ELECTRIC SERVICE AREA
OF
SUBSIDIARIES OF HOLDING DEFENDANTS
COMPARED WITH OTHER
PRINCIPAL ELECTRIC UTILITY HOLDING COMPANIES
—LEGEND—
SUBSIDIARIES OF FOLLOWING HOLDING DEFENDANTS:
AMERICAN GAS AND ELECTRIC COMPANY
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
NEBRASKA
NEVADA
COLORADO
KANSAS
ARIZONA
NEW MEXICO
OKLAHOMA
TEXAS
LOUISIANA
MISSOURI
ILLINOIS
INDIANA
MICHIGAN
WISCONSIN
MINNESOTA
IOWA

6346

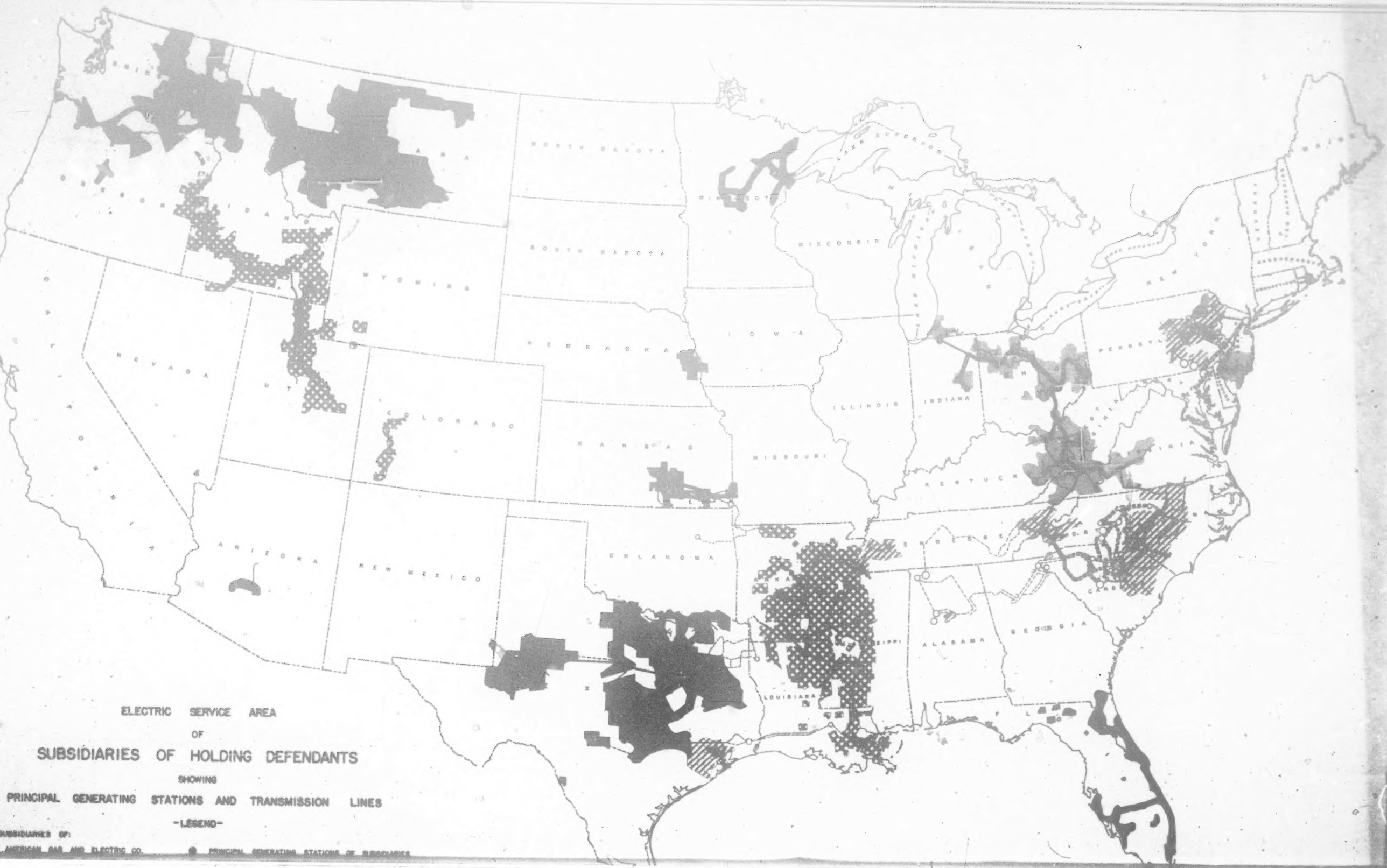
6347

Exhibit 112A

MAP No. 2.

Electric Service Area and Principal Generating Stations and Transmission Lines of Subsidiaries of Holding Defendants.

6348



ELECTRIC SERVICE AREA

OF

SUBSIDIARIES OF HOLDING DEFENDANTS

SHOWING

PRINCIPAL GENERATING STATIONS AND TRANSMISSION LINES

-LEGEND-

SUBSIDIARIES OF:

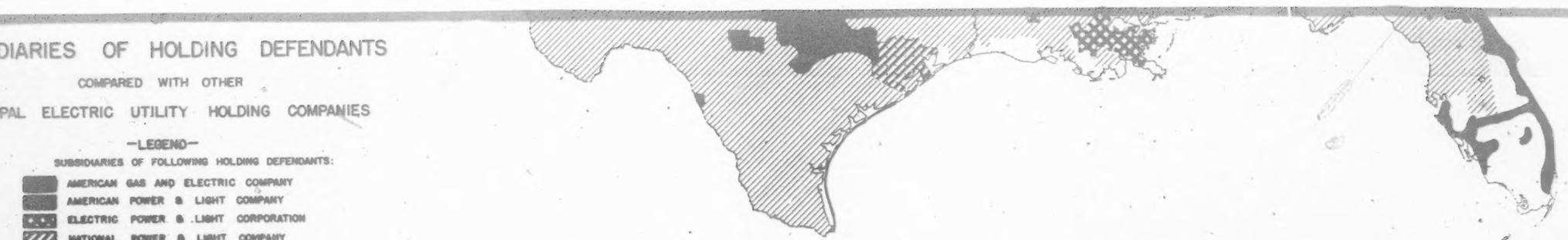
AMERICAN GAS AND ELECTRIC CO.

PRINCIPAL GENERATING STATIONS OF SUBSIDIARIES

SUBSIDIARIES OF HOLDING DEFENDANTS

COMPARED WITH OTHER

PRINCIPAL ELECTRIC UTILITY HOLDING COMPANIES



6352

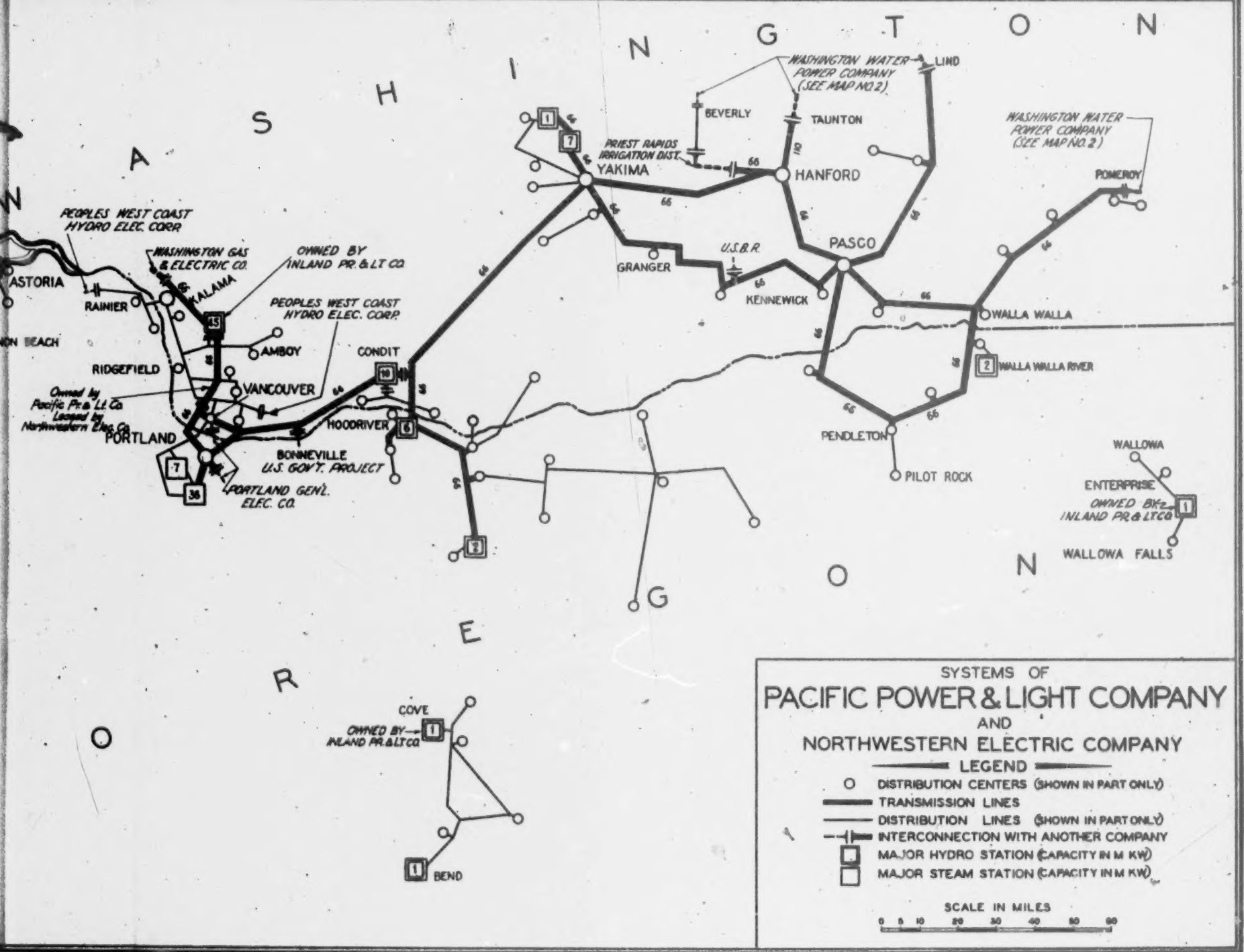
6353

Exhibit 113

MAP No. 1.

Systems of Pacific Power & Light Company and Northwestern Electric Company.

6354


WASHINGTON
OREGON
WASHINGTON WATER POWER COMPANY (SEE MAP NO 2)
LIND
BEVERLY
TAUNTON
PRIEST RAPIDS IRRIGATION DIST.
YAKIMA
HANFORD
WASHINGTON WATER POWER COMPANY (SEE MAP NO. 2)
POMEROY
PEOPLES WEST COAST HYDRO ELEC. CORP.
WASHINGTON GAS & ELECTRIC CO.
OWNED BY INLAND PR. & LT. CO.
KALAMA
ASTORIA
RAINIER
PEOPLES WEST COAST HYDRO ELEC. CORP.
AMBOY
CONDIT
RIDGEFIELD
VANCOUVER
Owned by Pacific Pr. & Lt. Co. Leased by Northwestern Elec. Co.
PORTLAND
HOODRIVER
BONNEVILLE U.S. GOV'T. PROJECT
PORTLAND GEN'L. ELEC. CO.
GRANGER
U.S.B.R.
KENNEWICK
PASCO
WALLA WALLA
WALLA WALLA RIVER
PENDLETON
PILOT ROCK
WALLOWA
ENTERPRISE
OWNED BY INLAND PR. & LT. CO.
WALLOWA FALLS
COVE
OWNED BY INLAND PR. & LT. CO.
BEND
SYSTEMS OF
PACIFIC POWER & LIGHT COMPANY
AND
NORTHWESTERN ELECTRIC COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR HYDRO STATION (CAPACITY IN M KW)
MAJOR STEAM STATION (CAPACITY IN M KW)
SCALE IN MILES
0 5 10 20 30 40 50 60

6358

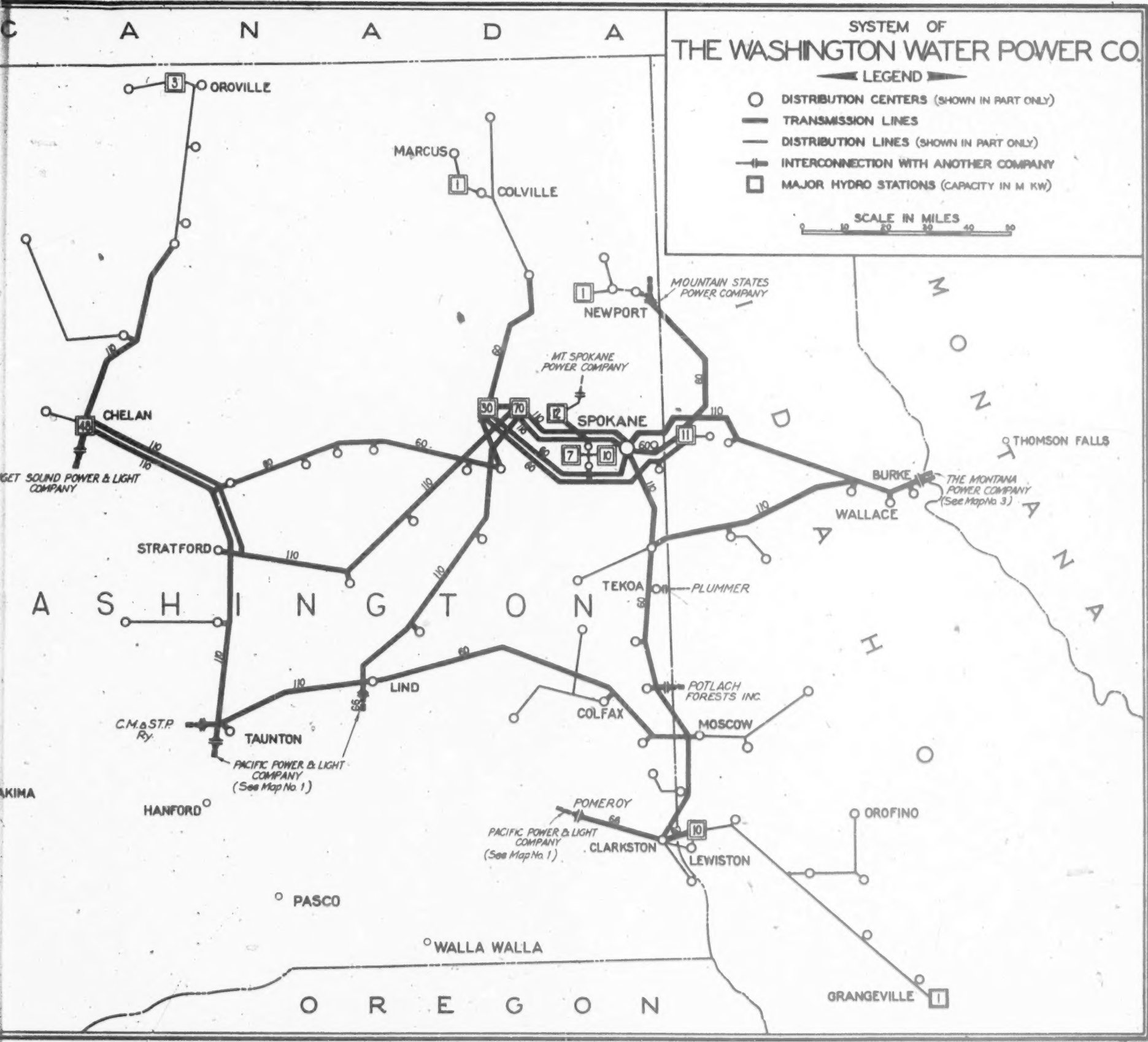
6359

Exhibit 113

MAP No. 2.

System of The Washington Water Power Company.

6360


SYSTEM OF
THE WASHINGTON WATER POWER CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR HYDRO STATIONS (CAPACITY IN M KW)
SCALE IN MILES
0 10 20 30 40 50
C A N A D A
OROVILLE
MARCUS
COLVILLE
NEWPORT
MOUNTAIN STATES POWER COMPANY
MT SPOKANE POWER COMPANY
SPOKANE
CHELAN
GET SOUND POWER & LIGHT COMPANY
THOMSON FALLS
BURKE
THE MONTANA POWER COMPANY (See Map No. 3)
WALLACE
STRATFORD
TEKOA
PLUMMER
A S H I N G T O N
LIND
POTLACH FORESTS INC.
COLFAX
MOSCOW
C.M.&ST.P. Ry.
TAUNTON
PACIFIC POWER & LIGHT COMPANY (See Map No. 1)
AKIMA
HANFORD
POMEROY
PACIFIC POWER & LIGHT COMPANY (See Map No. 1)
CLARKSTON
LEWISTON
OROFINO
PASCO
WALLA WALLA
GRANGEVILLE
O R E G O N
M O N T A N A
I D A H O

ELECTRIC SERVICE AREA

OF

SUBSIDIARIES OF HOLDING DEFENDANTS

SHOWING

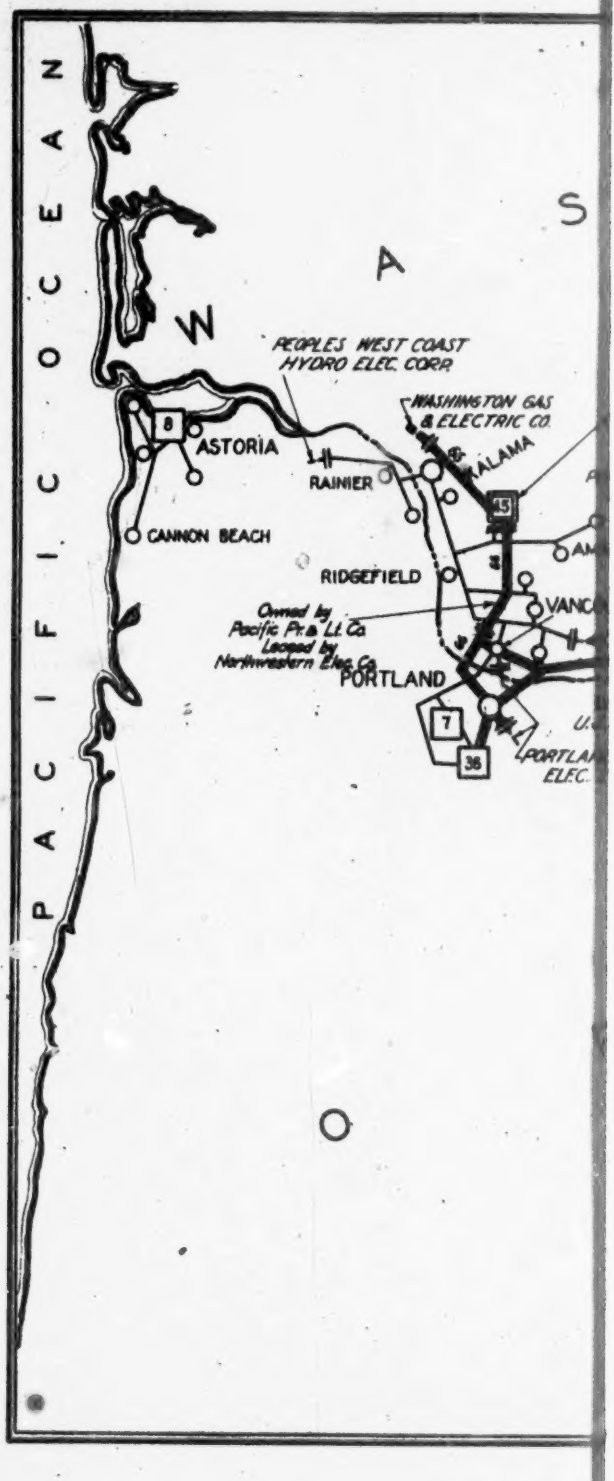
PRINCIPAL GENERATING STATIONS AND TRANSMISSION LINES

-LEGEND-

SUBSIDIARIES OF:

- AMERICAN GAS AND ELECTRIC CO.
- AMERICAN POWER & LIGHT CO.
- ELECTRIC POWER & LIGHT CORP.
- NATIONAL POWER & LIGHT CO.

- PRINCIPAL GENERATING STATIONS OF SUBSIDIARIES
- GENERATING STATIONS OF NON-ASSOCIATED COMPANIES
- ELECTRIC TRANSMISSION LINES OF SUBSIDIARIES
- TRANSMISSION LINES OF NON-ASSOCIATED COMPANIES


PACIFIC OCEAN
PEOPLES WEST COAST HYDRO ELEC. CORP.
WASHINGTON GAS & ELECTRIC CO.
ASTORIA
RAINIER
ALAMA
CANNON BEACH
RIDGEFIELD
Owned by Pacific Pr. & Lt. Co. Leased by Northwestern Elec. Co.
PORTLAND
8
43
7
36

6364

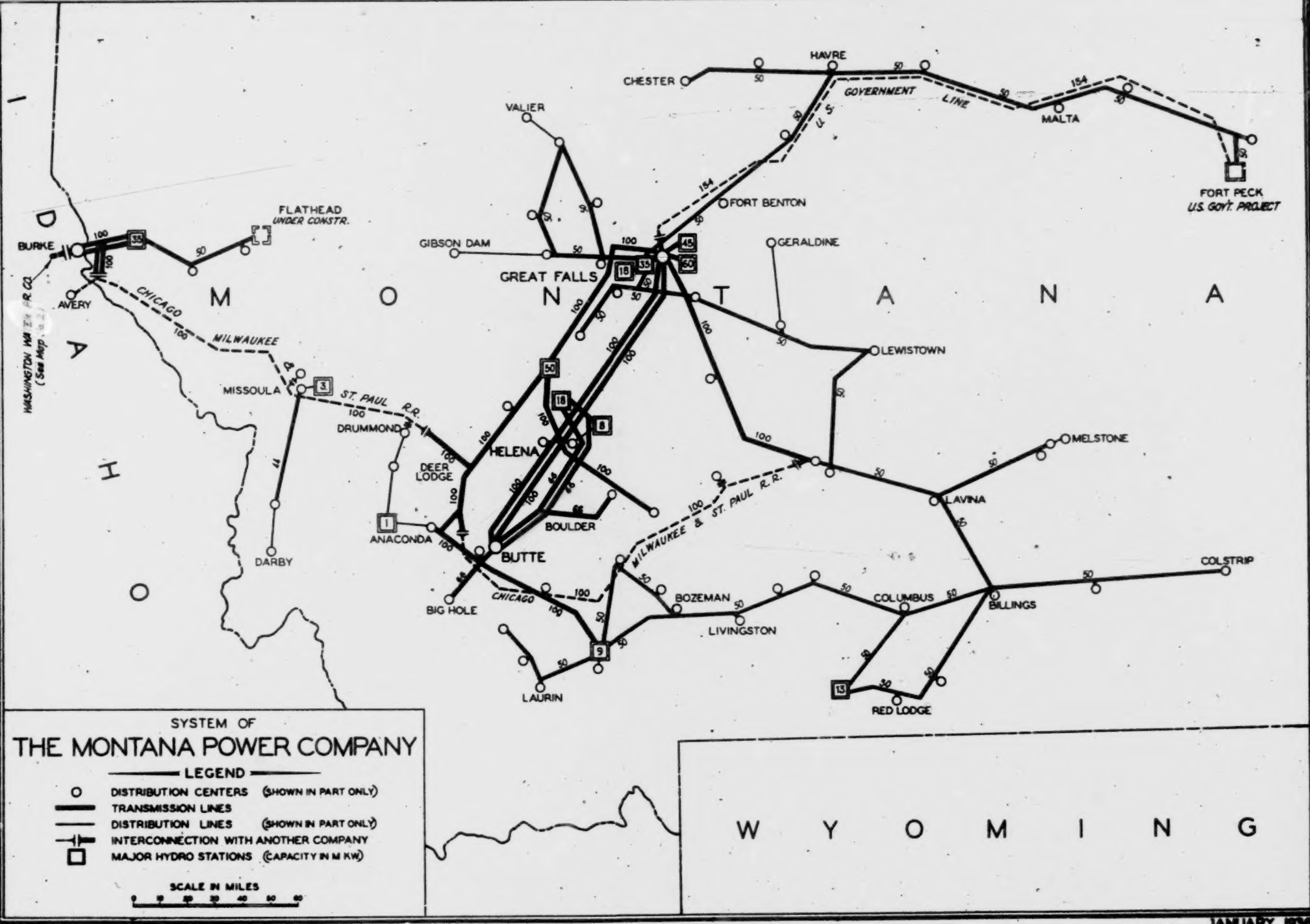
6365

Exhibit 113

MAP No. 3.

System of The Montana Power Company.

6366


HAVRE
CHESTER
GOVERNMENT LINE
MALTA
FORT PECK
U.S. GOV'T. PROJECT
VALIER
FORT BENTON
FLATHEAD
UNDER CONSTR.
BURKE
GIBSON DAM
GREAT FALLS
GERALDINE
AVERY
CHICAGO MILWAUKEE & ST. PAUL R.R.
LEWISTOWN
MISSOULA
DRUMMOND
HELENA
MELSTONE
DEER LODGE
LAVINA
BOULDER
ANACONDA
BUTTE
DARBY
MILWAUKEE & ST. PAUL R.R.
COLSTRIP
BOZEMAN
COLUMBUS
BILLINGS
BIG HOLE
LIVINGSTON
LAURIN
RED LODGE
I D A H O
M O N T A N A
W Y O M I N G
SYSTEM OF
THE MONTANA POWER COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR HYDRO STATIONS (CAPACITY IN M KW)
SCALE IN MILES
0 10 20 30 40 50 60

6370

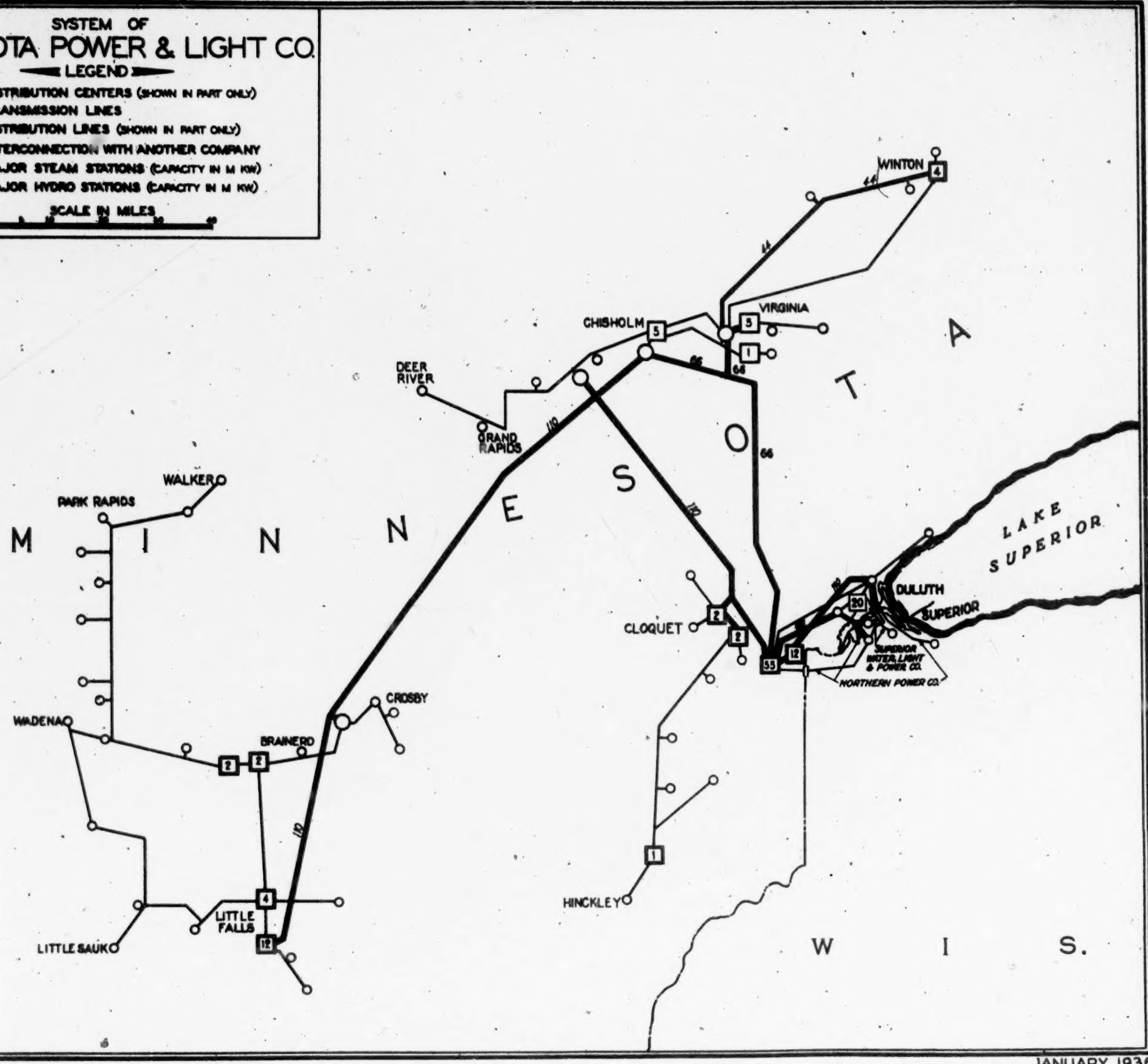
6371

Exhibit 118

MAP No. 4

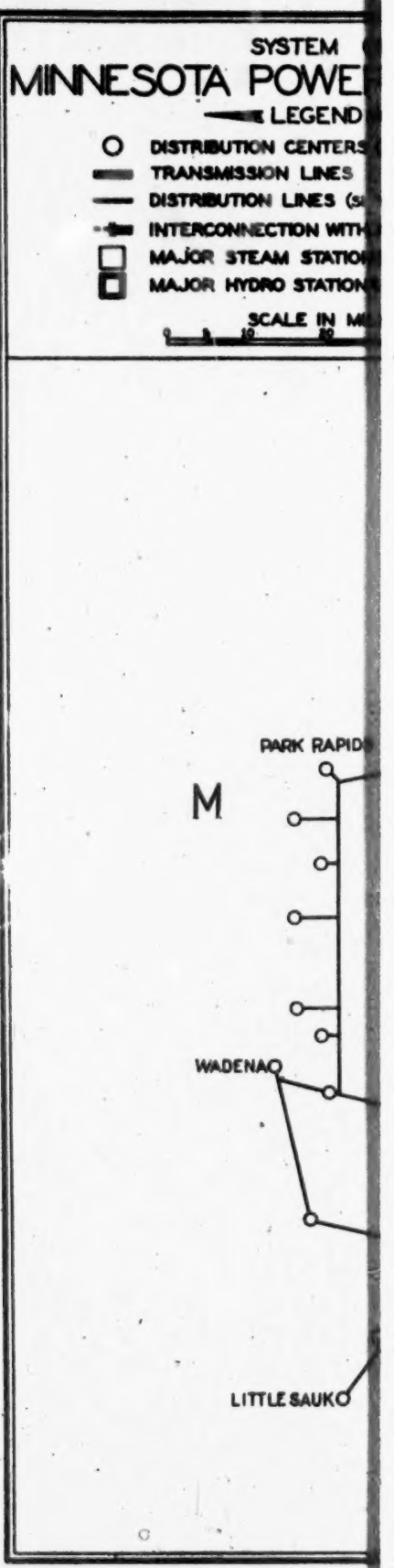
System of Minnesota Power & Light Company.

6372



JANUARY 1936

C A
5
OR
CHELAN
PUGET SOUND POWER & LIGHT COMPANY
STRATFORD
W A S H
C.M.&ST.P. Ry.
YAKIMA
HANFORD


SYSTEM
MINNESOTA POWE
LEGEND
DISTRIBUTION CENTERS
TRANSMISSION LINES
DISTRIBUTION LINES
INTERCONNECTION WITH
MAJOR STEAM STATION
MAJOR HYDRO STATION
SCALE IN MI
PARK RAPID
M
WADENA
LITTLE SAUK

6376

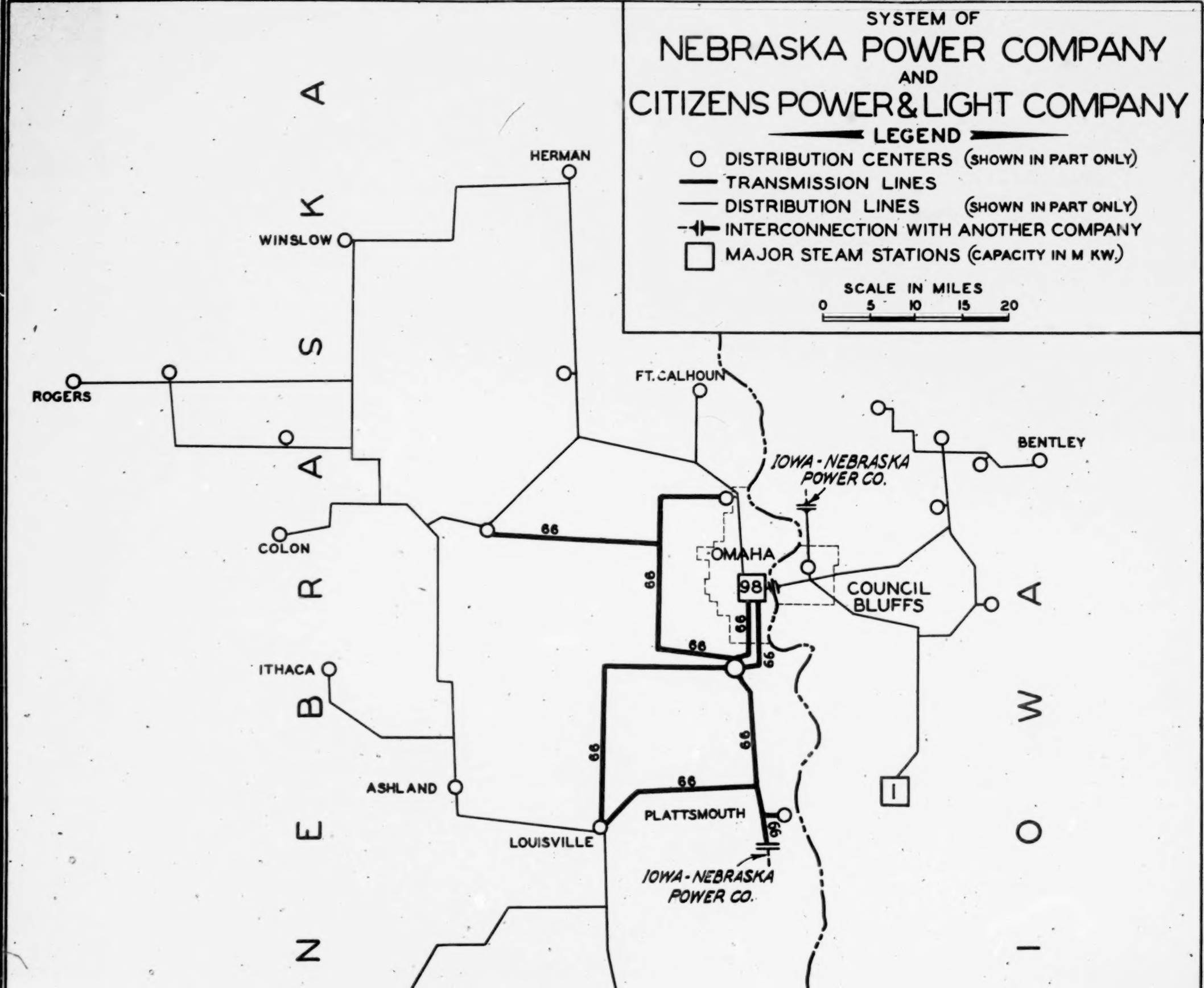
Exhibit 113

6377

MAP No. 5.

System of Nebraska Power Company and Citizens Power & Light Company.

6378


SYSTEM OF
NEBRASKA POWER COMPANY
AND
CITIZENS POWER & LIGHT COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M KW.)
SCALE IN MILES
0 5 10 15 20
NEBRASKA
IOWA
HERMAN
WINSLOW
ROGERS
COLON
ITHACA
ASHLAND
LOUISVILLE
PLATTSMOUTH
FT. CALHOUN
IOWA - NEBRASKA POWER CO.
BENTLEY
OMAHA
98
COUNCIL BLUFFS
80
66

6382

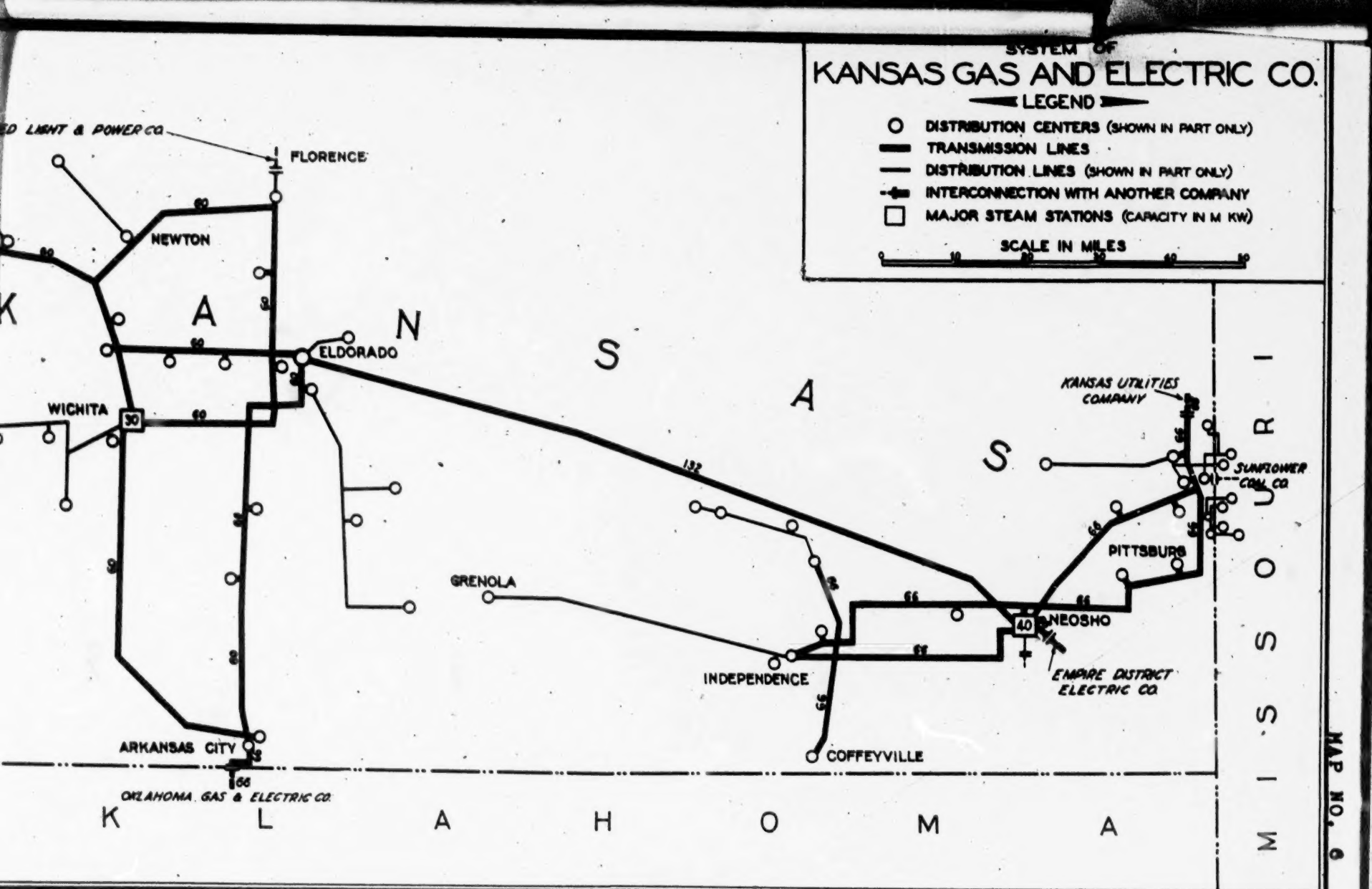
6383

Exhibit 113

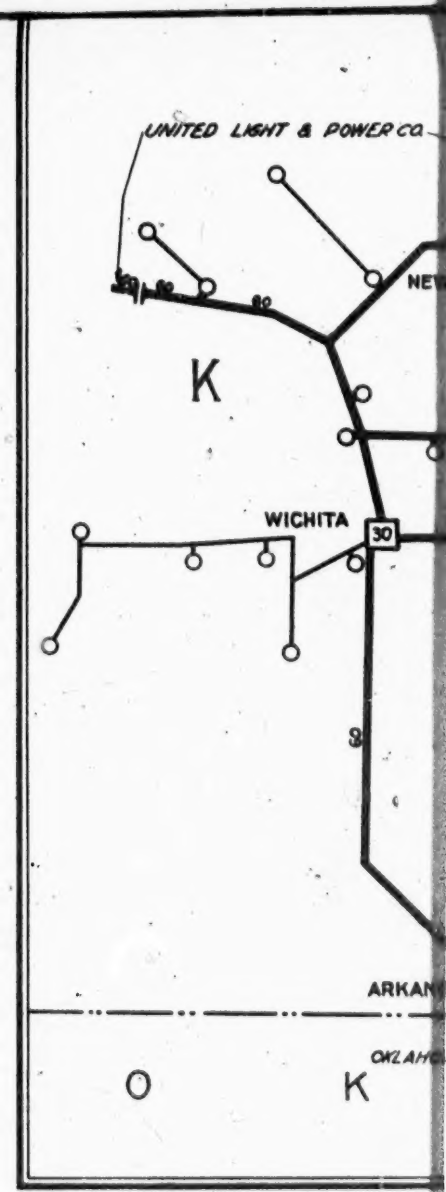
MAP No. 6.

System of Kansas Gas and Electric Co.

6384


SYSTEM OF
KANSAS GAS AND ELECTRIC CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M KW)
SCALE IN MILES
0 10 20 30 40 50
ED LIGHT & POWER CO.
FLORENCE
NEWTON
ELDORADO
WICHITA
30
KANSAS UTILITIES COMPANY
SUNFLOWER COAL CO.
PITTSBURG
GRENOLA
NEOSHO
40
EMPIRE DISTRICT ELECTRIC CO.
INDEPENDENCE
COFFEYVILLE
ARKANSAS CITY
OKLAHOMA GAS & ELECTRIC CO.
132
66
KANSAS
MISSOURI
OKLAHOMA
MAP NO. 6

JANUARY 1936


UNITED LIGHT & POWER CO.
NE
K
WICHITA
30
ARKAN
OKLAHO
O
K

6388

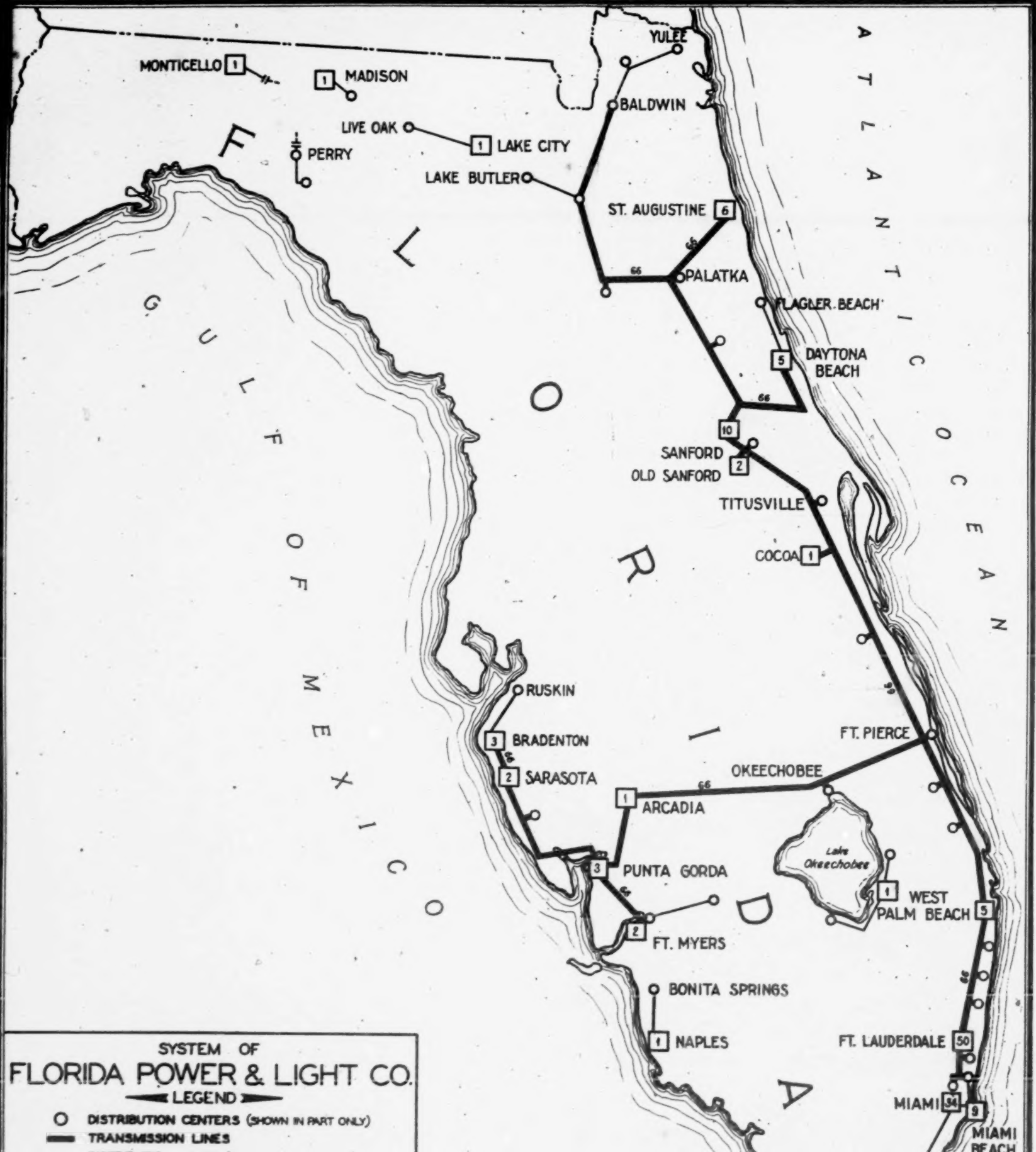
6389

Exhibit 113

MAP No. 7.

System of Florida Power & Light Co.

6390



SYSTEM OF

FLORIDA POWER & LIGHT CO.

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- TRANSMISSION LINES

6394

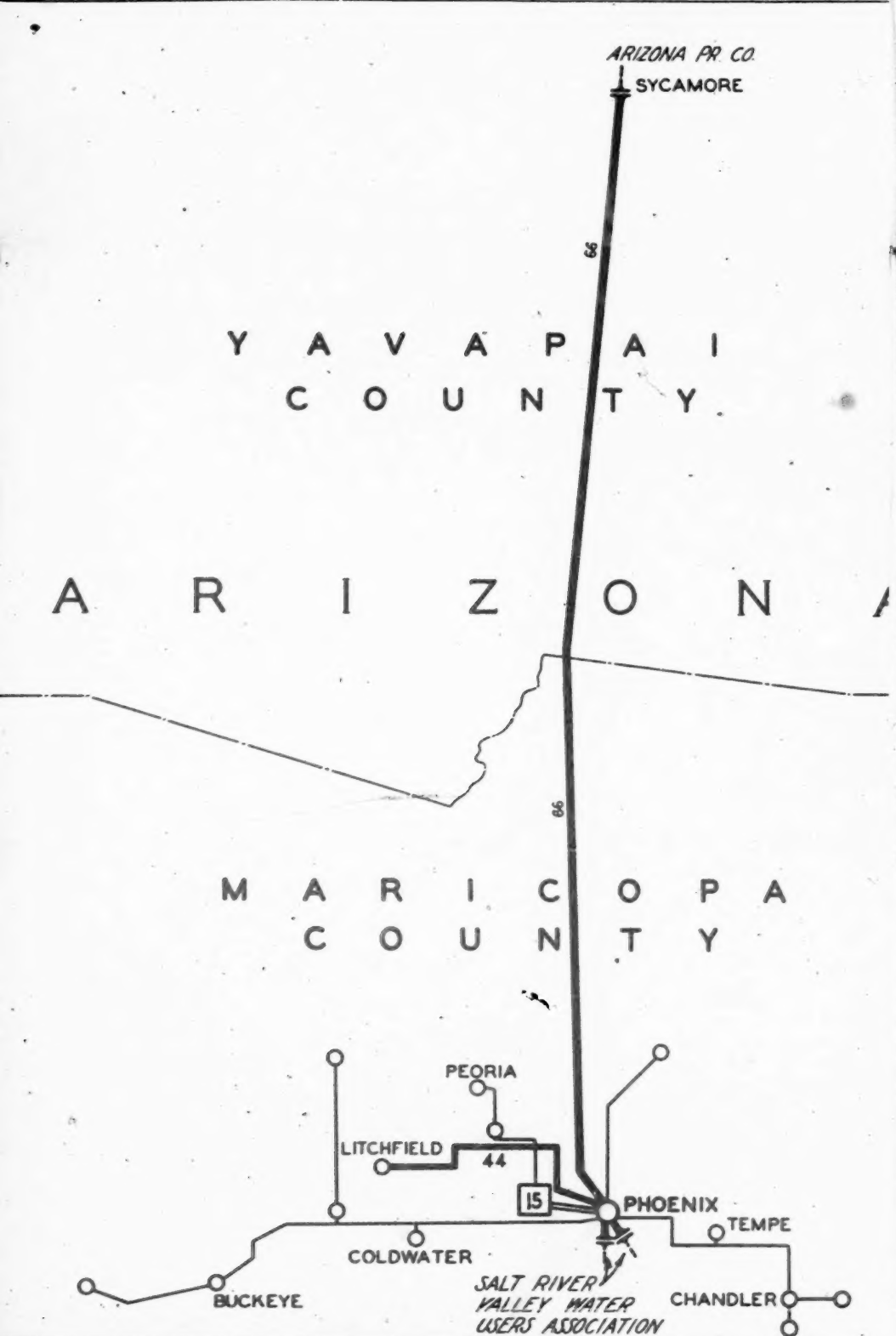
6395

Exhibit 113

MAP No. 8.

System of Central Arizona Light & Power Co.

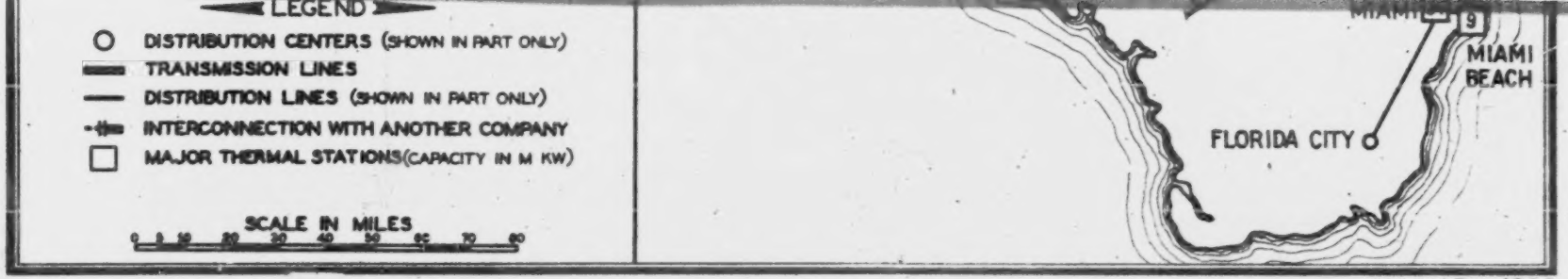
6396



SYSTEM OF CENTRAL ARIZONA LIGHT & POWER CO.

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- TRANSMISSION LINES
- DISTRIBUTION LINES (SHOWN IN PART ONLY)
- INTERCONNECTION WITH ANOTHER COMPANY



JANUARY 1936

SYSTEM OF
CENTRAL ARIZONA LIGHT & POWER CO.

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- TRANSMISSION LINES
- DISTRIBUTION LINES (SHOWN IN PART ONLY)
- INTERCONNECTION WITH ANOTHER COMPANY
- MAJOR STEAM STATIONS (CAPACITY IN M KW)

SCALE IN MILES

0 5 10 15 20

6400

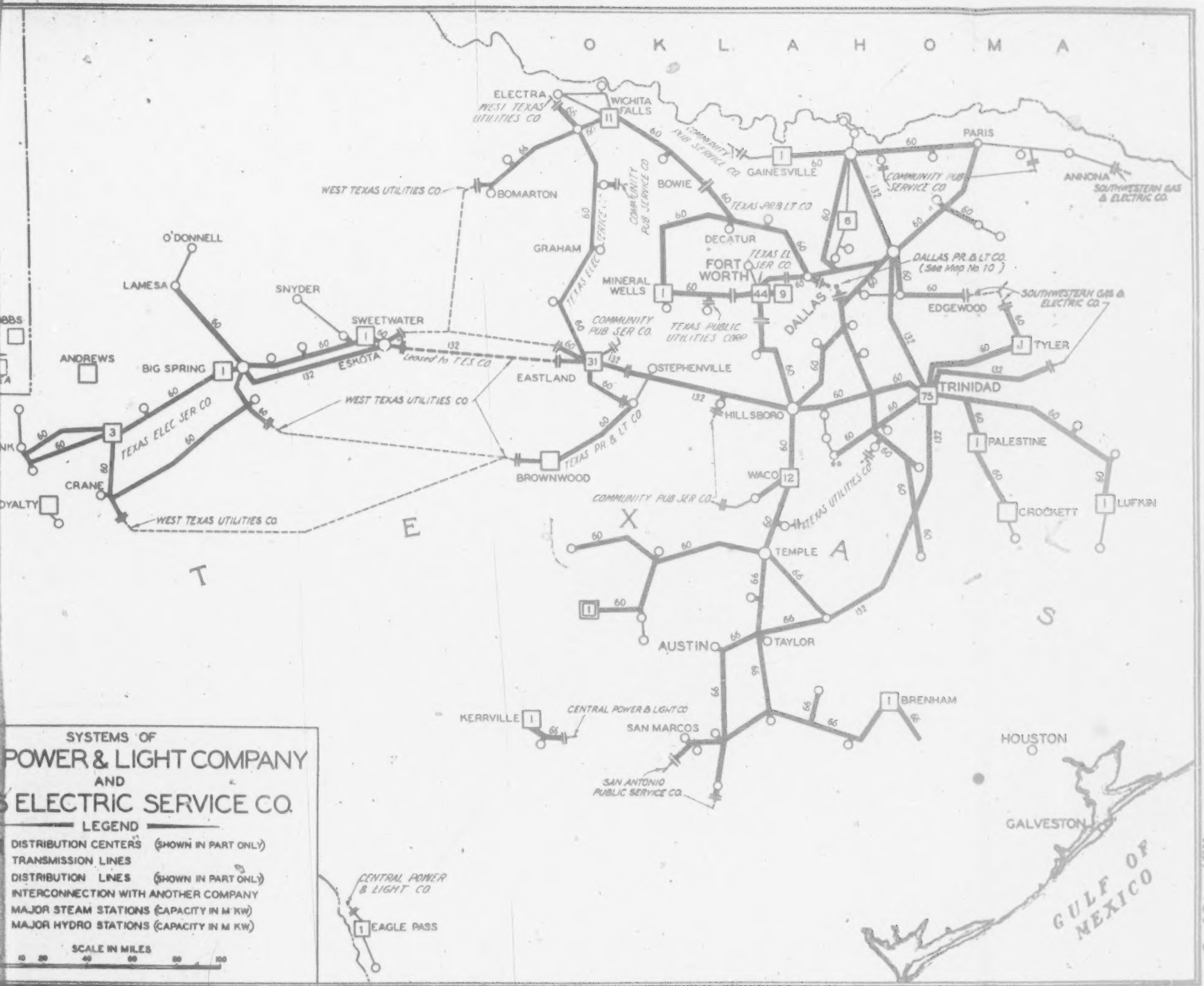
Exhibit 113

6401

MAP No. 9.

Systems of Texas Power & Light Company and Texas Electric Service Co.

6402


O K L A H O M A
T E X A S
ELECTRA
WEST TEXAS UTILITIES CO
WICHITA FALLS
11
66
60
COMMUNITY PUB SERVICE CO
1
GAINESVILLE
PARIS
ANNONA
SOUTHWESTERN GAS & ELECTRIC CO.
COMMUNITY PUB SERVICE CO
132
WEST TEXAS UTILITIES CO.
BOMARTON
BOWIE
TEXAS PUB. L.T. CO
DECATUR
6
O'DONNELL
LAMESA
SNYDER
GRAHAM
TEXAS ELEC SERVICE
COMMUNITY PUB SERVICE CO
TEXAS EL SER CO
FORT WORTH
DALLAS PR. & LT CO.
(See Map No 10)
MINERAL WELLS
1
44
9
DALLAS
EDGEWOOD
SOUTHWESTERN GAS & ELECTRIC CO.
SWEETWATER
COMMUNITY PUB SER CO.
TEXAS PUBLIC UTILITIES CORP
J
TYLER
ANDREWS
BIG SPRING
ESKOTA
Leased to T.E.S.CO
EASTLAND
31
STEPHENVILLE
TRINIDAD
75
WEST TEXAS UTILITIES CO
TEXAS ELEC SER CO
3
HILLSBORO
PALESTINE
TEXAS PR. & LT CO
BROWNWOOD
WACO
12
COMMUNITY PUB SER CO.
TEXAS UTILITIES CO
CROCKETT
LUFKIN
CRANE
ROYALTY
WEST TEXAS UTILITIES CO
TEMPLE
AUSTIN
TAYLOR
KERRVILLE
CENTRAL POWER & LIGHT CO
SAN MARCOS
BRENHAM
SAN ANTONIO PUBLIC SERVICE CO.
HOUSTON
GALVESTON
GULF OF MEXICO
CENTRAL POWER & LIGHT CO
EAGLE PASS
SYSTEMS OF
POWER & LIGHT COMPANY
AND
ELECTRIC SERVICE CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M KW)
MAJOR HYDRO STATIONS (CAPACITY IN M KW)
SCALE IN MILES
0 20 40 60 80 100
MAP NO. 9

6406

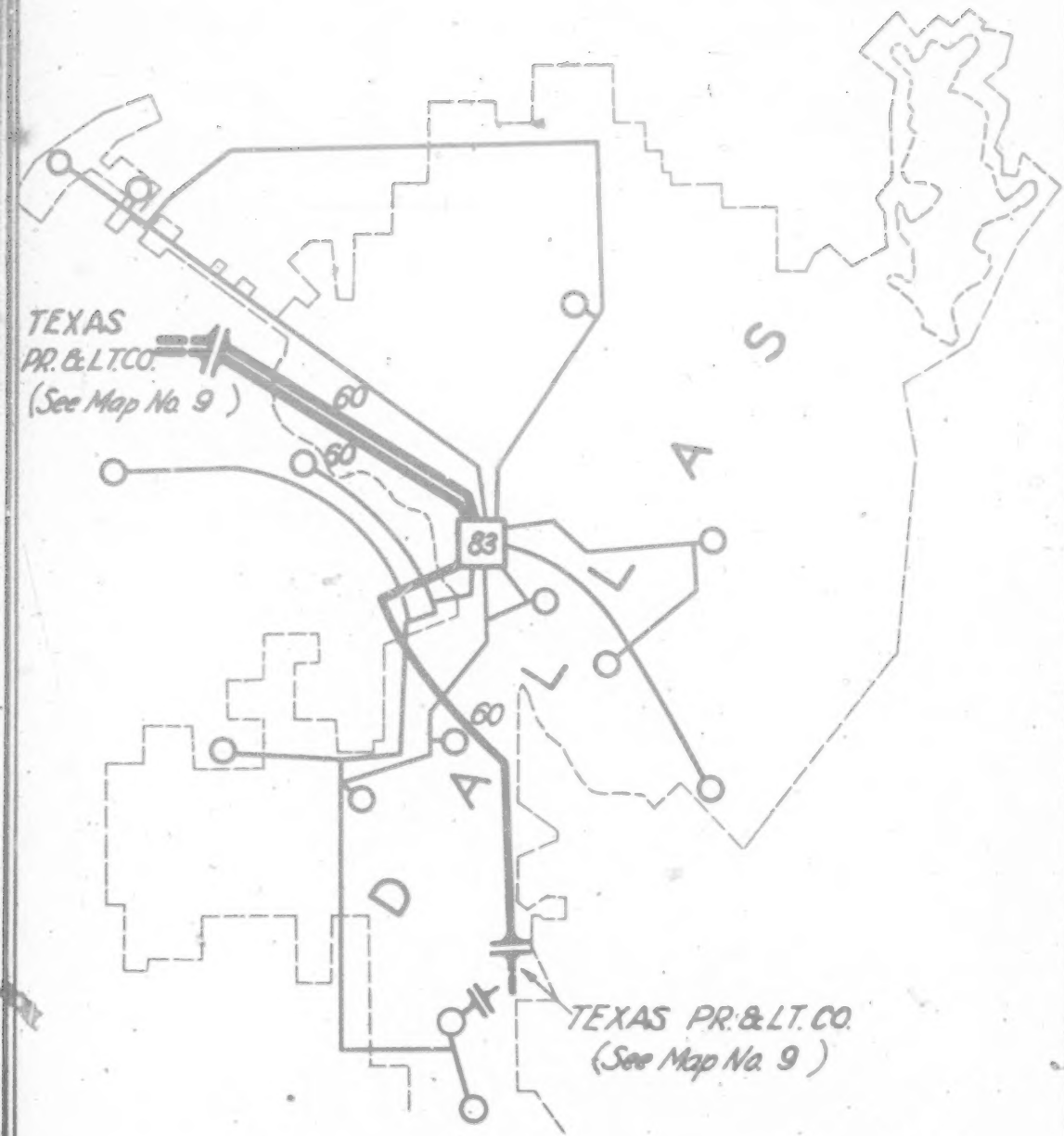
6407

Exhibit 113

MAP No. 10.

System of Dallas Power & Light Company.

6408

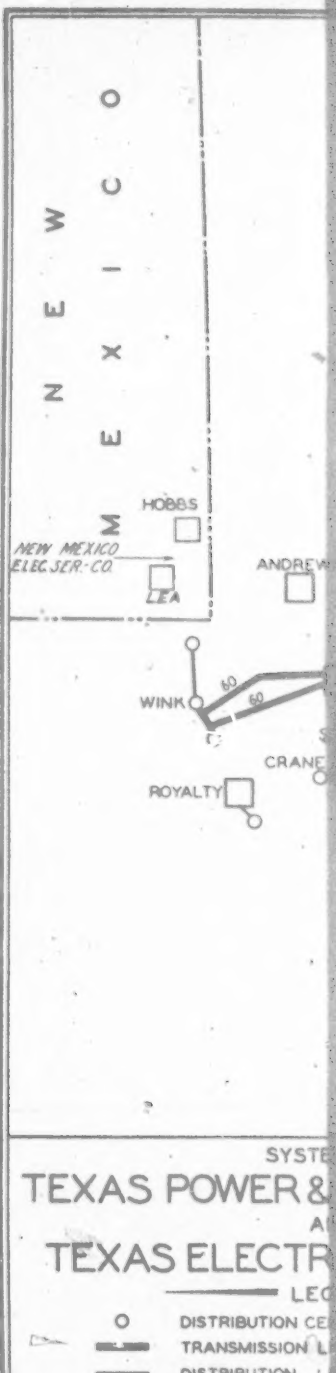


SYSTEM OF

DALLAS POWER & LIGHT COMPANY

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- TRANSMISSION LINES
- DISTRIBUTION LINES (SHOWN IN PART ONLY)
- INTERCONNECTION WITH ANOTHER COMPANY


NEW MEXICO
HOBBS
NEW MEXICO
ELEC. SER. CO.
LEA
ANDREW
WINK
60
60
CRANE
ROYALTY
SYSTE
TEXAS POWER &
A
TEXAS ELECTR
LEG
DISTRIBUTION CE
TRANSMISSION L
DISTRIBUTION L
INTERCONNECTIO
MAJOR STEAM ST
MAJOR HYDRO ST
SCALE
0 10 20 40

6412

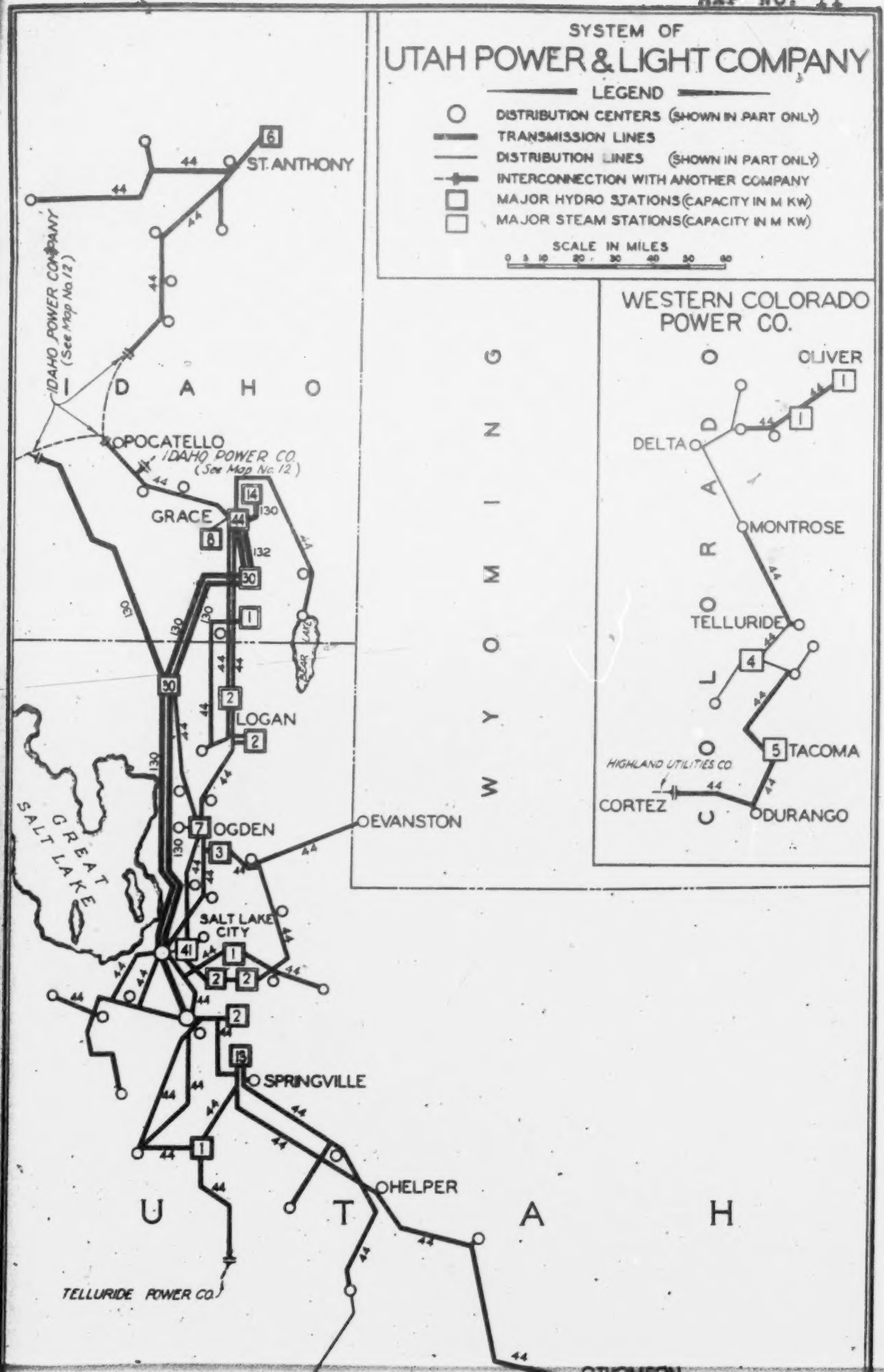
6413

Exhibit 113

MAP No. 11.

System of Utah Power & Light Company.

6414


SYSTEM OF
UTAH POWER & LIGHT COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR HYDRO STATIONS (CAPACITY IN M KW)
MAJOR STEAM STATIONS (CAPACITY IN M KW)
SCALE IN MILES
0 5 10 20 30 40 50 60
WESTERN COLORADO POWER CO.
OLIVER
DELTA
MONTROSE
TELLURIDE
TACOMA
HIGHLAND UTILITIES CO.
CORTEZ
DURANGO
COLORADO
WYOMING
IDAHO
UTAH
ST. ANTHONY
IDAHO POWER COMPANY (See Map No. 12)
POCATELLO
IDAHO POWER CO. (See Map No. 12)
GRACE
LOGAN
OGDEN
EVANSTON
GREAT SALT LAKE
SALT LAKE CITY
SPRINGVILLE
HELPER
TELLURIDE POWER CO.

6418

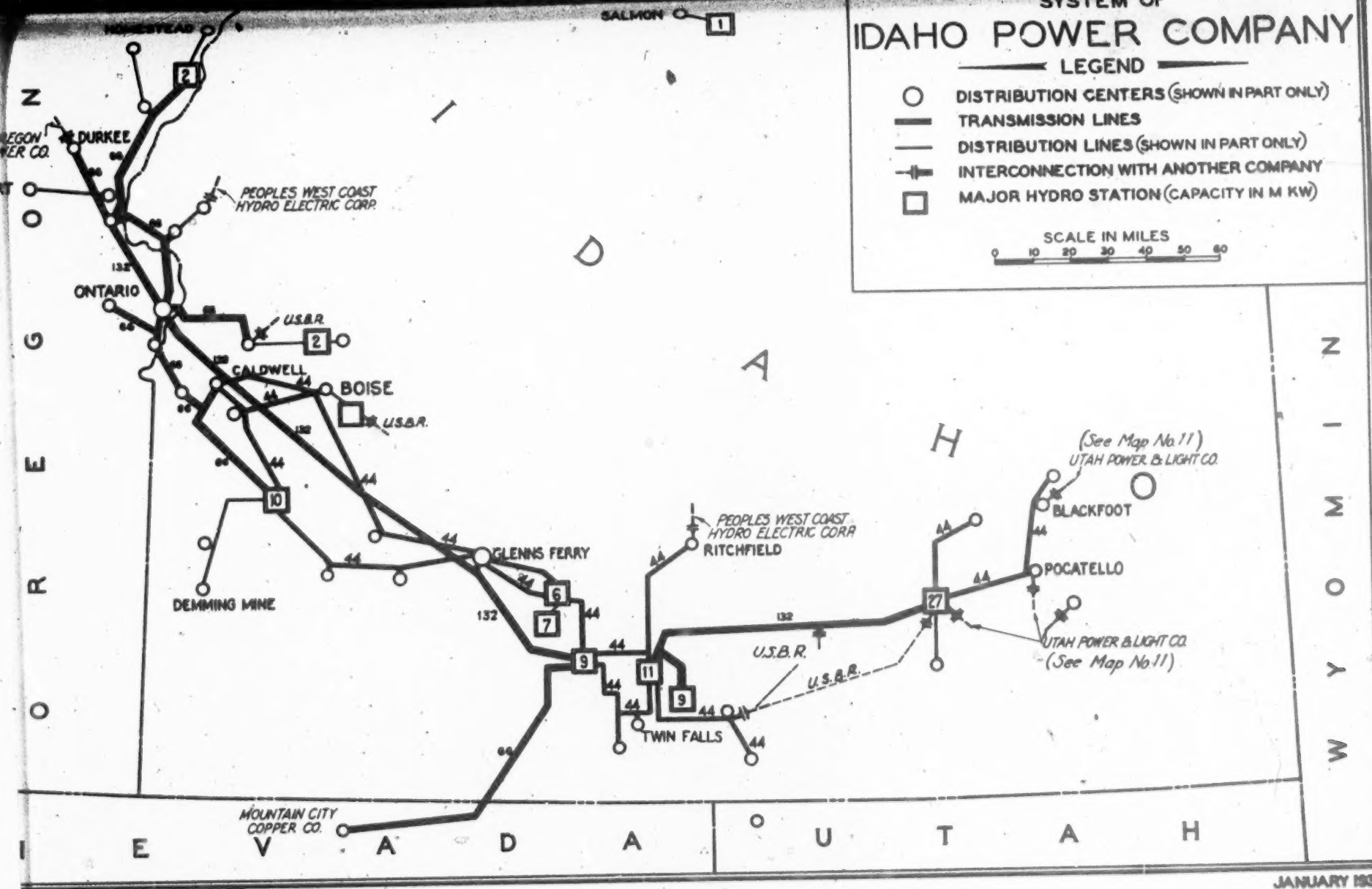
6419

Exhibit 113

MAP No. 12.

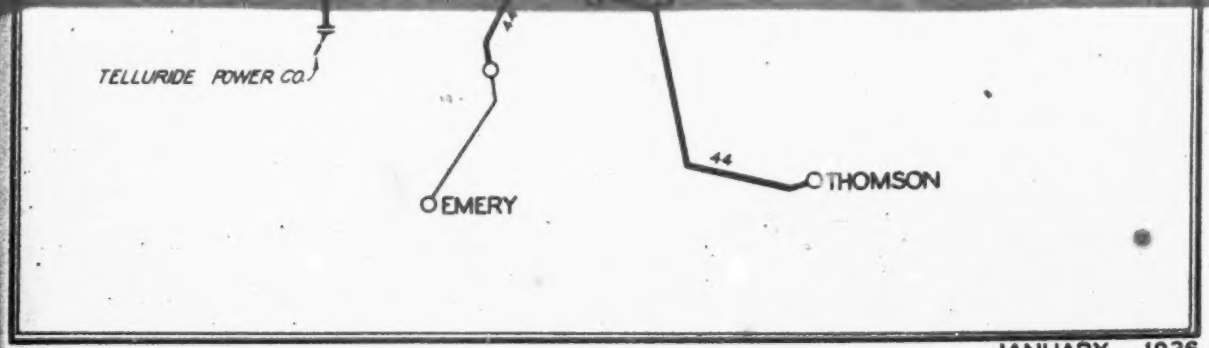
System of Idaho Power Company.

6420


SYSTEM OF
IDAHO POWER COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR HYDRO STATION (CAPACITY IN M KW)
SCALE IN MILES
0 10 20 30 40 50 60
SALMON
HOMESTEAD
DURKEE
PEOPLES WEST COAST HYDRO ELECTRIC CORP.
ONTARIO
U.S.B.R.
CALDWELL
BOISE
U.S.B.R.
DEMMING MINE
GLENNS FERRY
PEOPLES WEST COAST HYDRO ELECTRIC CORP.
RITCHFIELD
(See Map No. 11)
UTAH POWER & LIGHT CO.
BLACKFOOT
POCATELLO
UTAH POWER & LIGHT CO.
(See Map No. 11)
U.S.B.R.
U.S.B.R.
TWIN FALLS
MOUNTAIN CITY COPPER CO.
OREGON
IDAHO
WYOMING
NEVADA
UTAH

JANUARY 19

DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATION (CAPACITY IN M KW)
SCALE IN MILES
0 1 2 3 4 5 6
JANUARY 1936



JANUARY 1936

6424

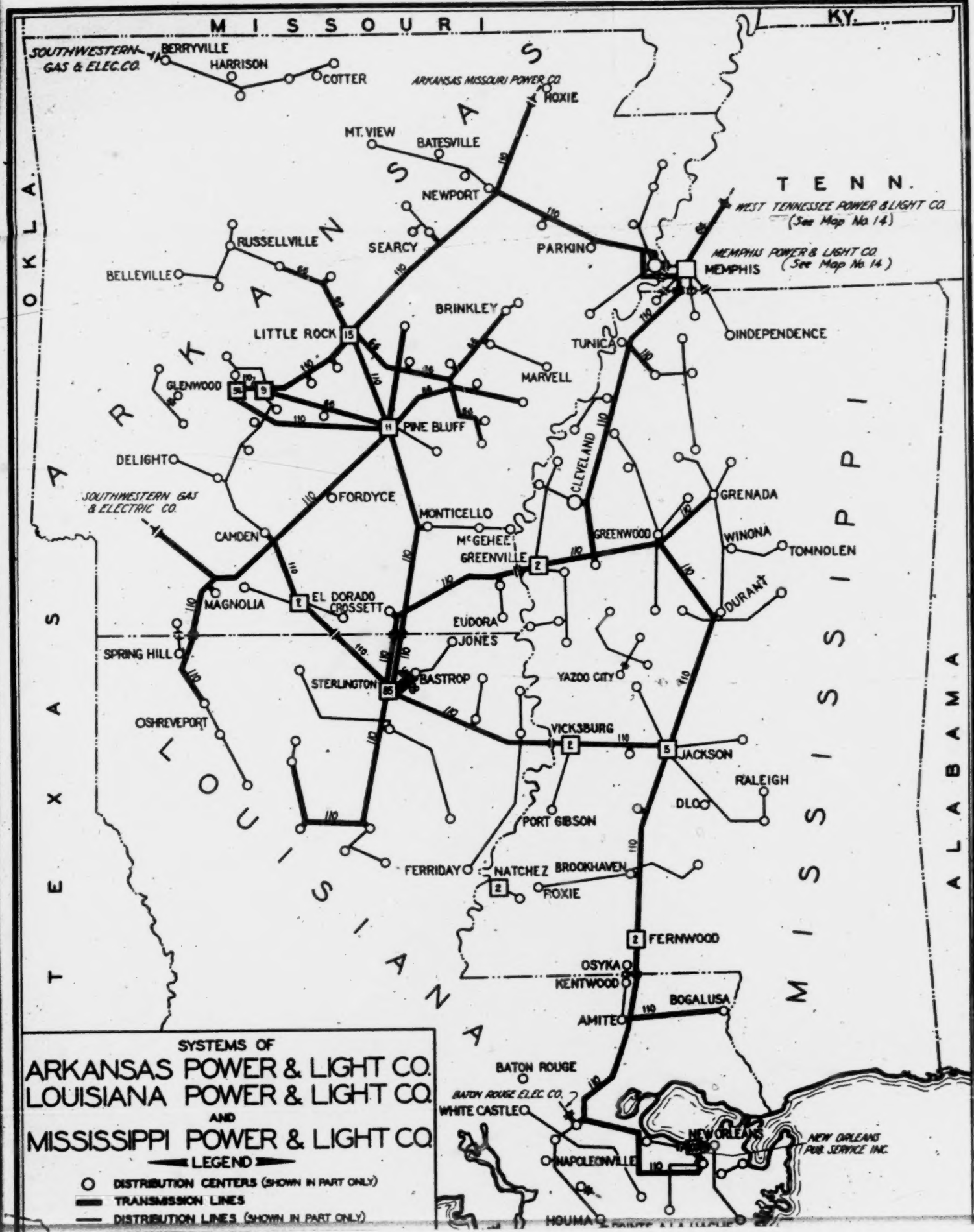
Exhibit 113

6425

MAP No. 13.

Systems of Arkansas Power & Light Co., Louisiana Power & Light Co., and Mississippi Power & Light Co.

6426


MISSOURI
KY.
TENN.
OKLA.
TEXAS
ALABAMA
ARKANSAS
LOUISIANA
MISSISSIPPI
SOUTHWESTERN GAS & ELEC. CO.
BERRYVILLE
HARRISON
COTTER
ARKANSAS MISSOURI POWER CO.
HOXIE
MT. VIEW
BATESVILLE
NEWPORT
SEARCY
PARKIN
WEST TENNESSEE POWER & LIGHT CO. (See Map No. 14)
MEMPHIS POWER & LIGHT CO. (See Map No. 14)
MEMPHIS
INDEPENDENCE
TUNICA
RUSSELLVILLE
BELLEVILLE
BRINKLEY
LITTLE ROCK
MARVELL
GLENWOOD
PINE BLUFF
CLEVELAND
DELIGHT
SOUTHWESTERN GAS & ELECTRIC CO.
FORDYCE
MONTICELLO
GRENADA
CAMDEN
McGEHEE
GREENWOOD
WINONA
TOMNOLEN
GREENVILLE
MAGNOLIA
EL DORADO
CROSSETT
EUDORA
DURANT
JONES
SPRING HILL
STERLINGTON
BASTROP
YAZOO CITY
OSHREVEPORT
VICKSBURG
JACKSON
RALEIGH
DLO
PORT GIBSON
FERRIDAY
NATCHEZ
BROOKHAVEN
ROXIE
FERNWOOD
OSYKA
KENTWOOD
BOGALUSA
AMITE
BATON ROUGE
BATON ROUGE ELEC. CO.
WHITE CASTLE
NEW ORLEANS
NEW ORLEANS PUB. SERVICE INC.
NAPOLEONVILLE
HOUMA
SYSTEMS OF
ARKANSAS POWER & LIGHT CO.
LOUISIANA POWER & LIGHT CO.
AND
MISSISSIPPI POWER & LIGHT CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)

6430

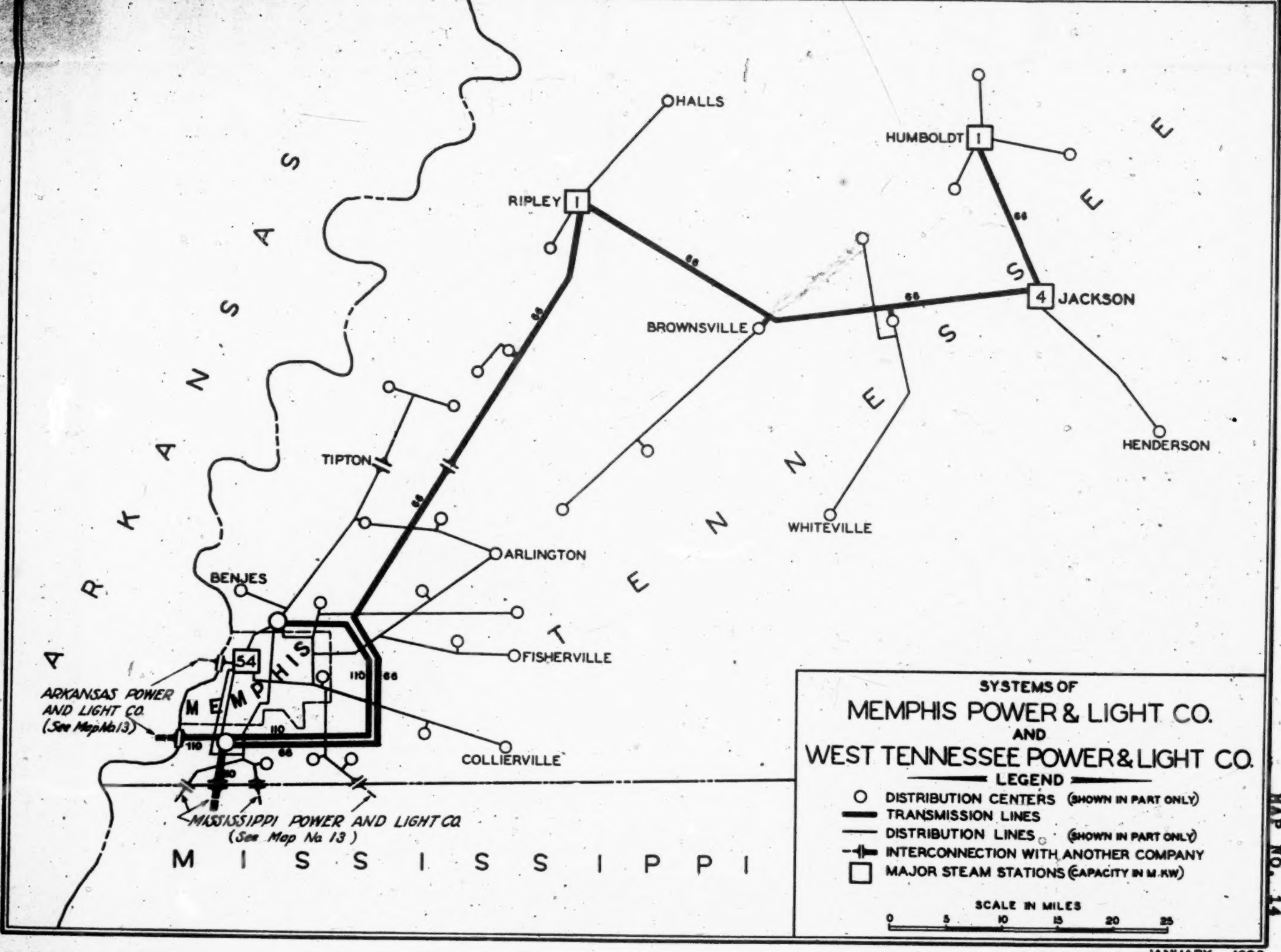
Exhibit 113

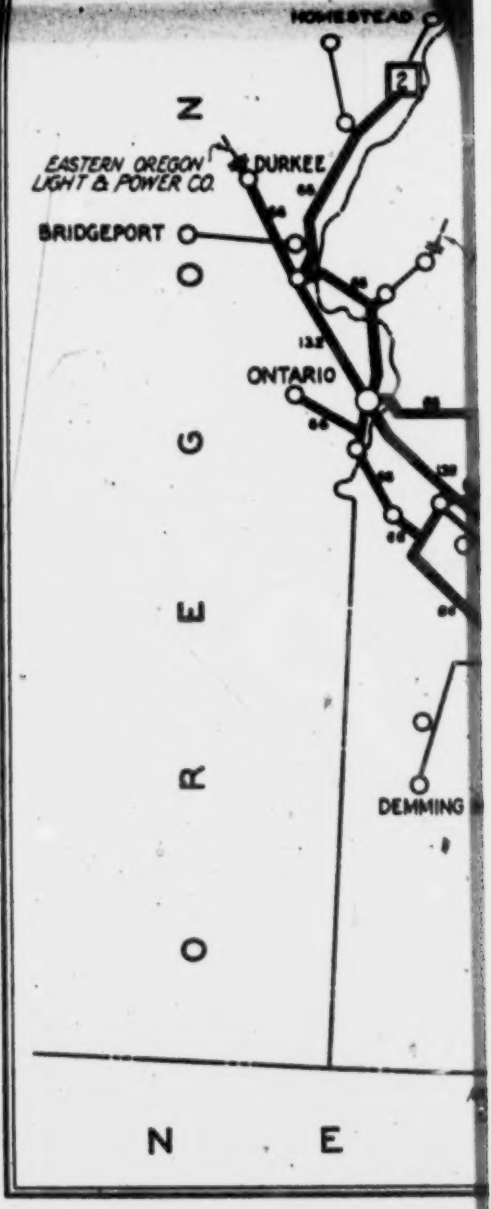
6431

MAP No. 14.

Systems of Memphis Power & Light Co. and West Tennessee Power & Light Co.

6432


HALLS
HUMBOLDT 1
RIPLEY 1
66
BROWNSVILLE
4 JACKSON
HENDERSON
TIPTON
ARLINGTON
WHITEVILLE
BENJES
FISHERVILLE
54
MEMPHIS
110
66
ARKANSAS POWER AND LIGHT CO. (See Map No 13)
COLLIERVILLE
MISSISSIPPI POWER AND LIGHT CO. (See Map No 13)
ARKANSAS
TENNESSEE
MISSISSIPPI
SYSTEMS OF
MEMPHIS POWER & LIGHT CO.
AND
WEST TENNESSEE POWER & LIGHT CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M.KW)
SCALE IN MILES
0 5 10 15 20 25
MAP NO. 14


HOMESTEAD
2
EASTERN OREGON LIGHT & POWER CO.
DURKEE
BRIDGEPORT
ONTARIO
DEMMING
O R E G O N
N E

MISSISSIPPI POWER & LIGHT CO.

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- TRANSMISSION LINES
- DISTRIBUTION LINES (SHOWN IN PART ONLY)
- INTERCONNECTION WITH ANOTHER COMPANY
- MAJOR STEAM STATIONS (CAPACITY IN M KW)
- MAJOR HYDRO STATIONS (CAPACITY IN M KW)

SCALE IN MILES

JANUARY 1936

6436

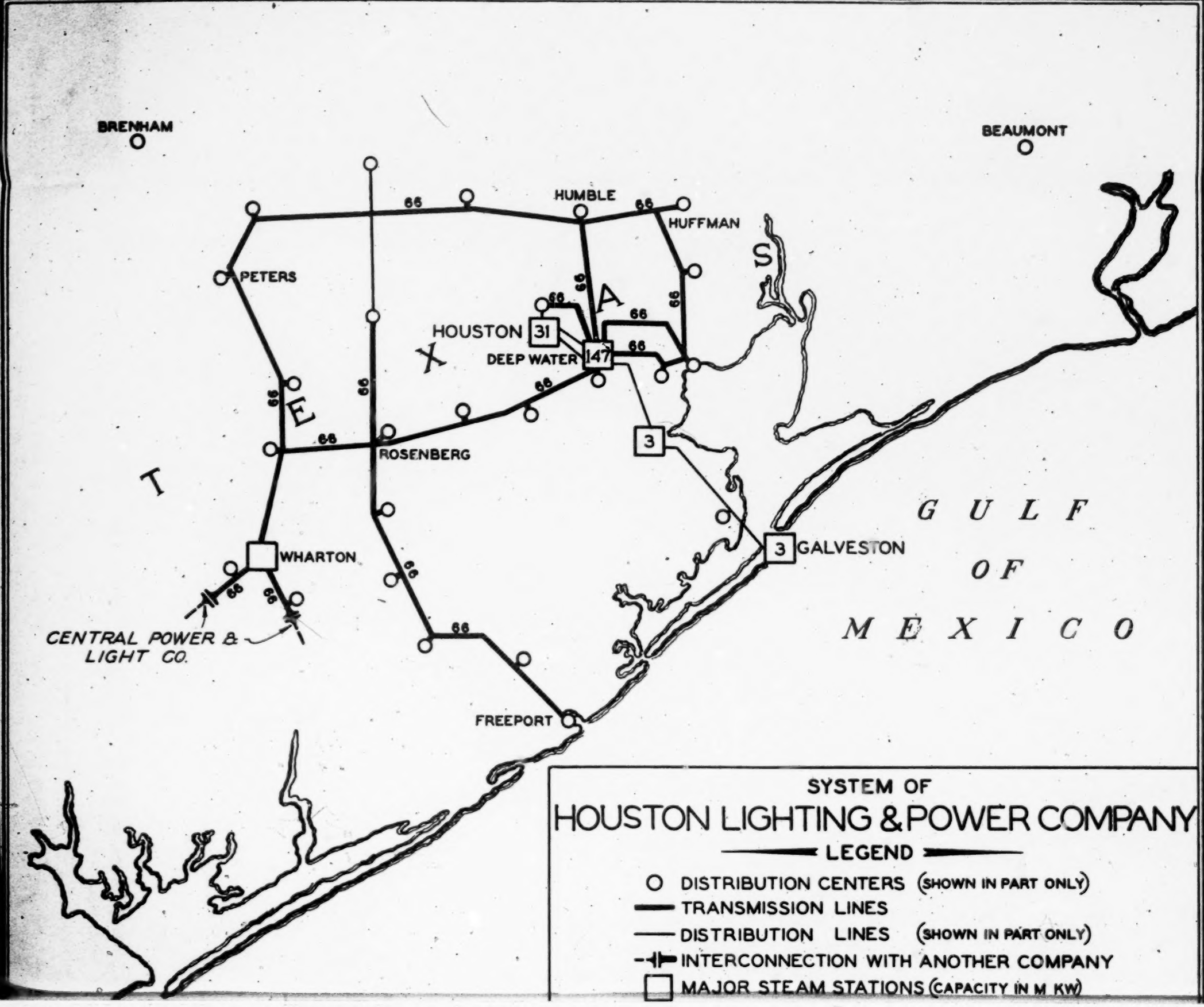
Exhibit 113

6437

MAP No. 15.

System of Houston Lighting & Power Company.

6438


BRENHAM
BEAUMONT
HUMBLE
HUFFMAN
PETERS
HOUSTON
31
DEEP WATER
147
3
ROSENBERG
WHARTON
3
GALVESTON
FREEPORT
CENTRAL POWER & LIGHT CO.
66
T
E
X
A
S
G U L F
O F
M E X I C O
SYSTEM OF
HOUSTON LIGHTING & POWER COMPANY
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M KW)

6442

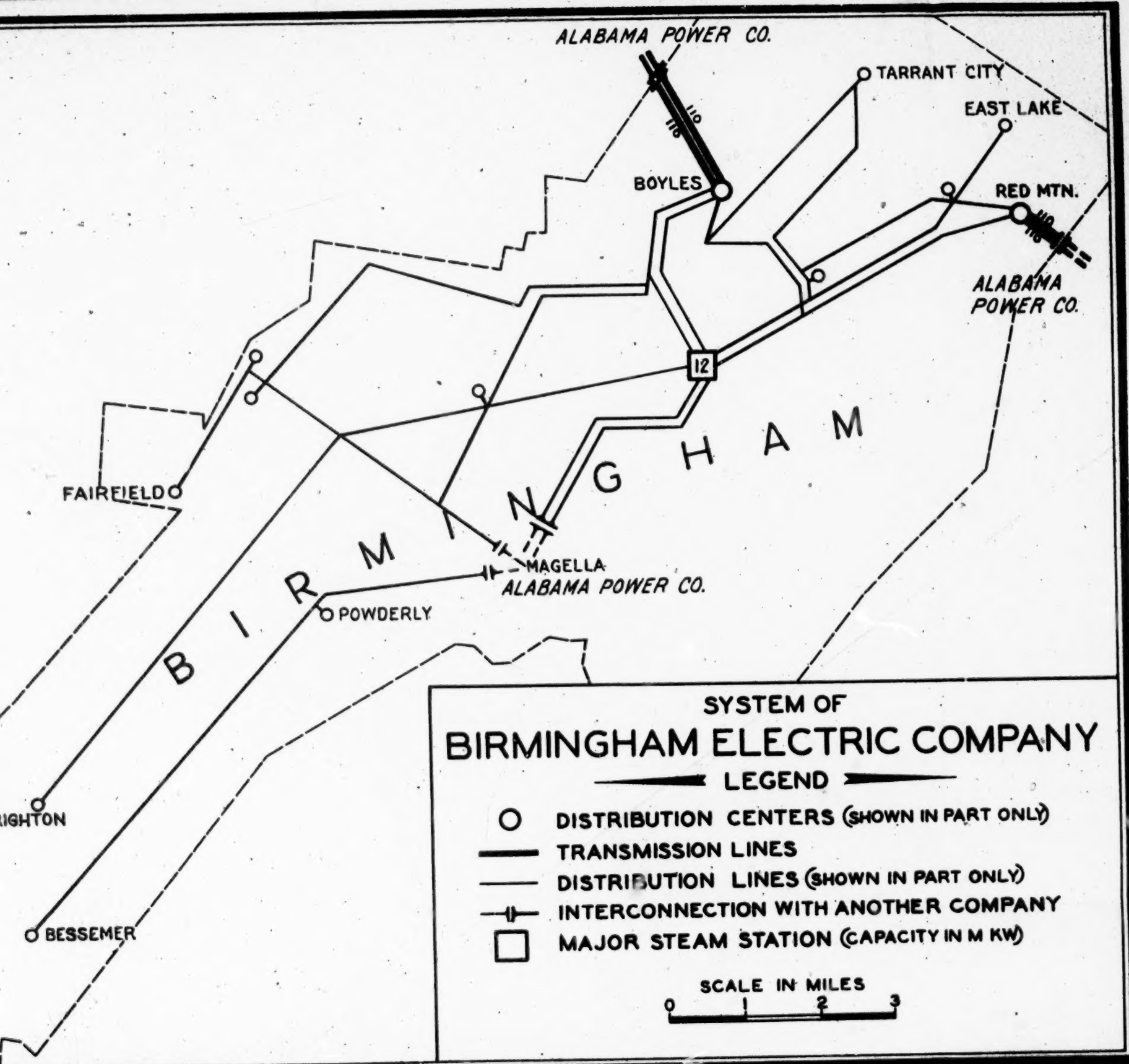
6443

Exhibit 113

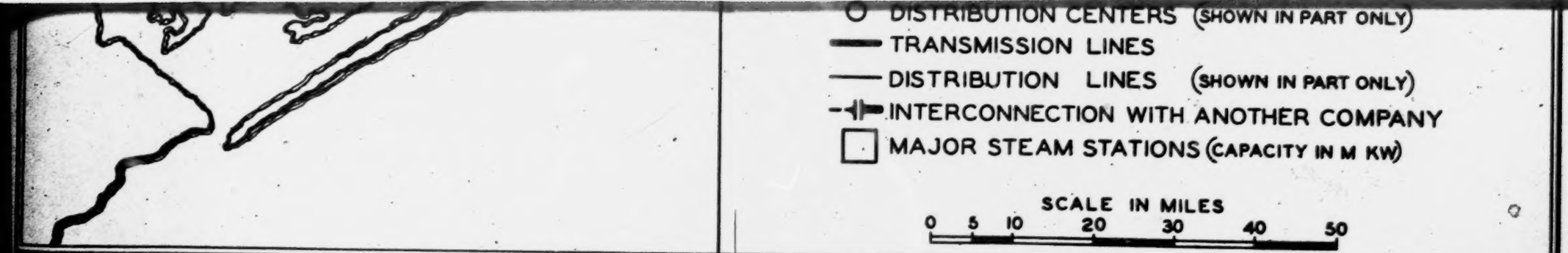
MAP No. 16.

System of Birmingham Electric Company.

6444



JANUARY 1936



DISTRIBUTION CENTERS (SHOWN IN PART ONLY)

TRANSMISSION LINES

DISTRIBUTION LINES (SHOWN IN PART ONLY)

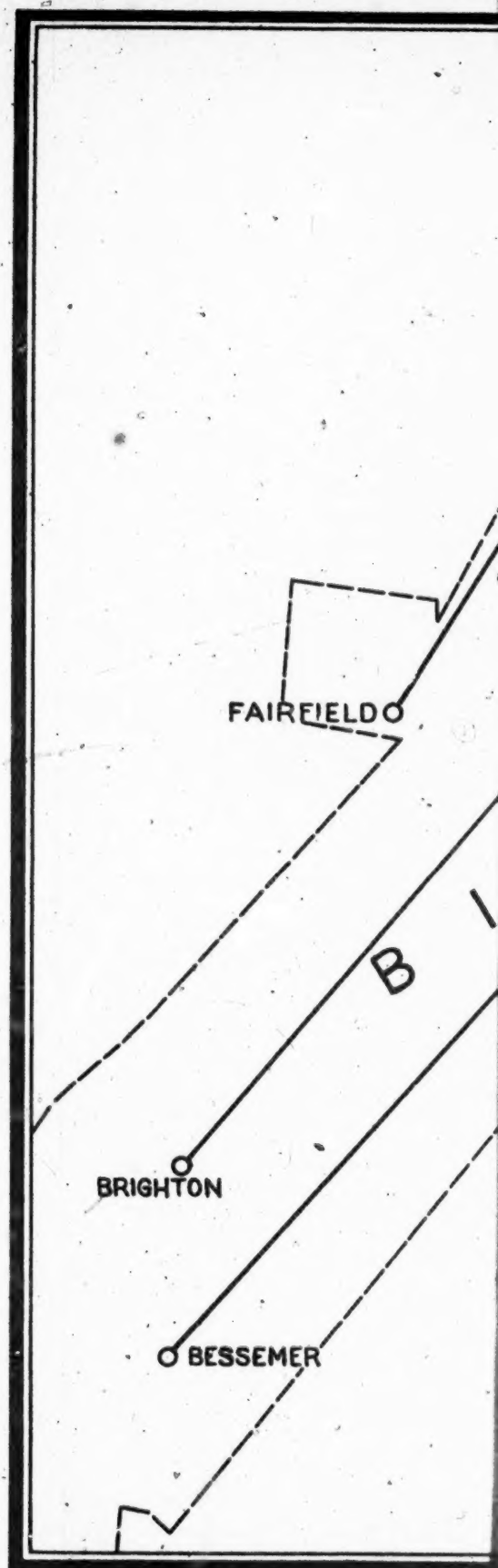
INTERCONNECTION WITH ANOTHER COMPANY

MAJOR STEAM STATIONS (CAPACITY IN M KW)

SCALE IN MILES

0 5 10 20 30 40 50

JANUARY 1936


FAIRFIELD
BRIGHTON
BESSEMER

6448

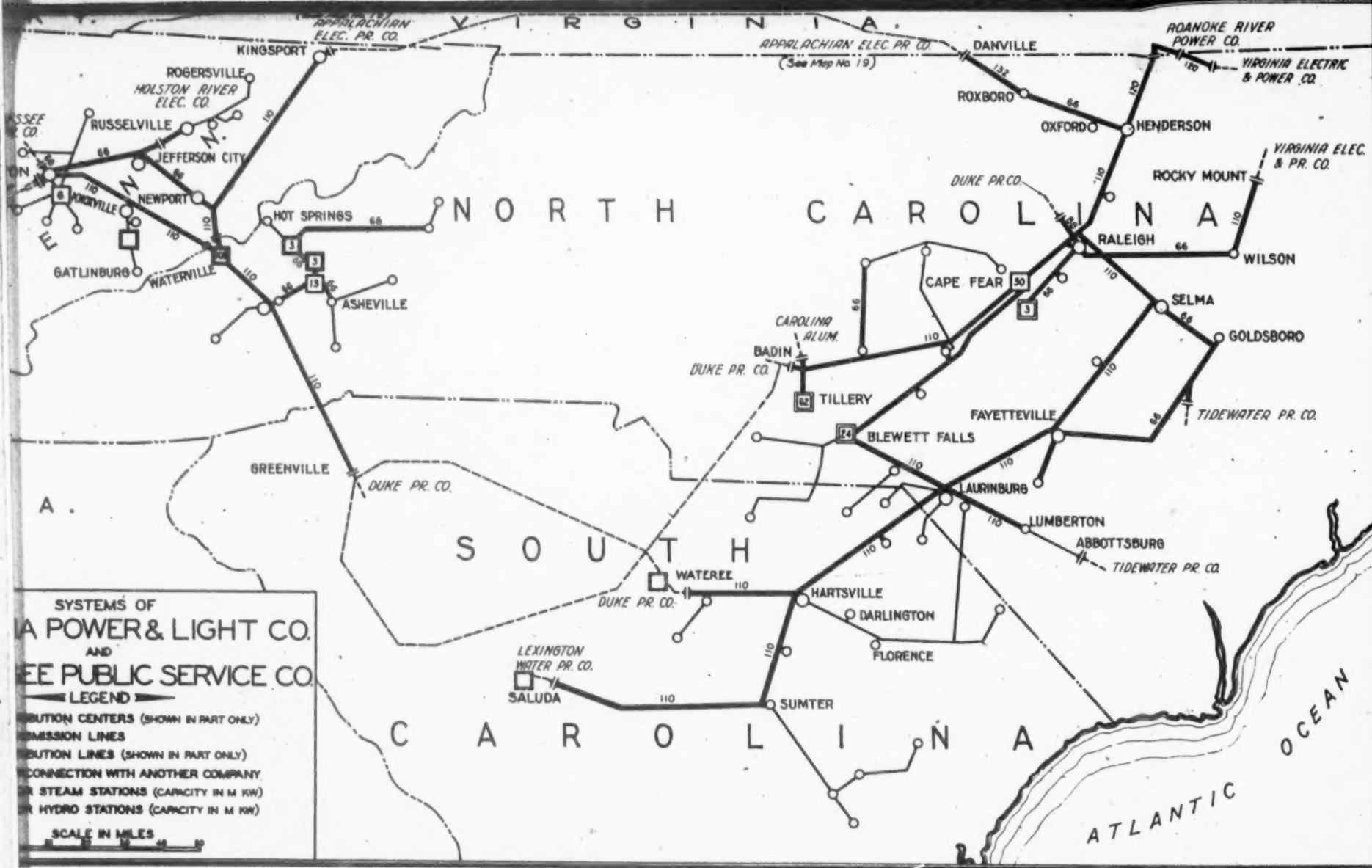
Exhibit 113

6449

MAP No. 17.

Systems of Carolina Power & Light Co. and Tennessee Public Service Co.

6450


APPALACHIAN ELEC. PR. CO.
KINGSPORT
ROGERSVILLE
HOLSTON RIVER ELEC. CO.
RUSSELLVILLE
JEFFERSON CITY
NEWPORT
HOT SPRINGS
GATLINBURG
WATERVILLE
ASHEVILLE
GREENVILLE
DUKE PR. CO.
APPALACHIAN ELEC. PR. CO.
(See Map No. 19)
DANVILLE
ROXBORO
OXFORD
HENDERSON
ROANOKE RIVER POWER CO.
VIRGINIA ELECTRIC & POWER CO.
ROCKY MOUNT
VIRGINIA ELEC. & PR. CO.
RALEIGH
WILSON
SELMA
GOLDSBORO
CAPE FEAR
DUKE PR. CO.
CAROLINA ALUM.
BADIN
TILLERY
BLEWETT FALLS
FAYETTEVILLE
TIDEWATER PR. CO.
AURINBURG
LUMBERTON
ABBOTTSBURG
TIDEWATER PR. CO.
WATEREE
HARTSVILLE
DARLINGTON
FLORENCE
LEXINGTON WATER PR. CO.
SALUDA
SUMTER
V I R G I N I A
N O R T H C A R O L I N A
S O U T H C A R O L I N A
ATLANTIC OCEAN
SYSTEMS OF
A POWER & LIGHT CO.
AND
EE PUBLIC SERVICE CO.
LEGEND
BUTION CENTERS (SHOWN IN PART ONLY)
MISSION LINES
BUTION LINES (SHOWN IN PART ONLY)
CONNECTION WITH ANOTHER COMPANY
R STEAM STATIONS (CAPACITY IN M KW)
R HYDRO STATIONS (CAPACITY IN M KW)
SCALE IN MILES

6454

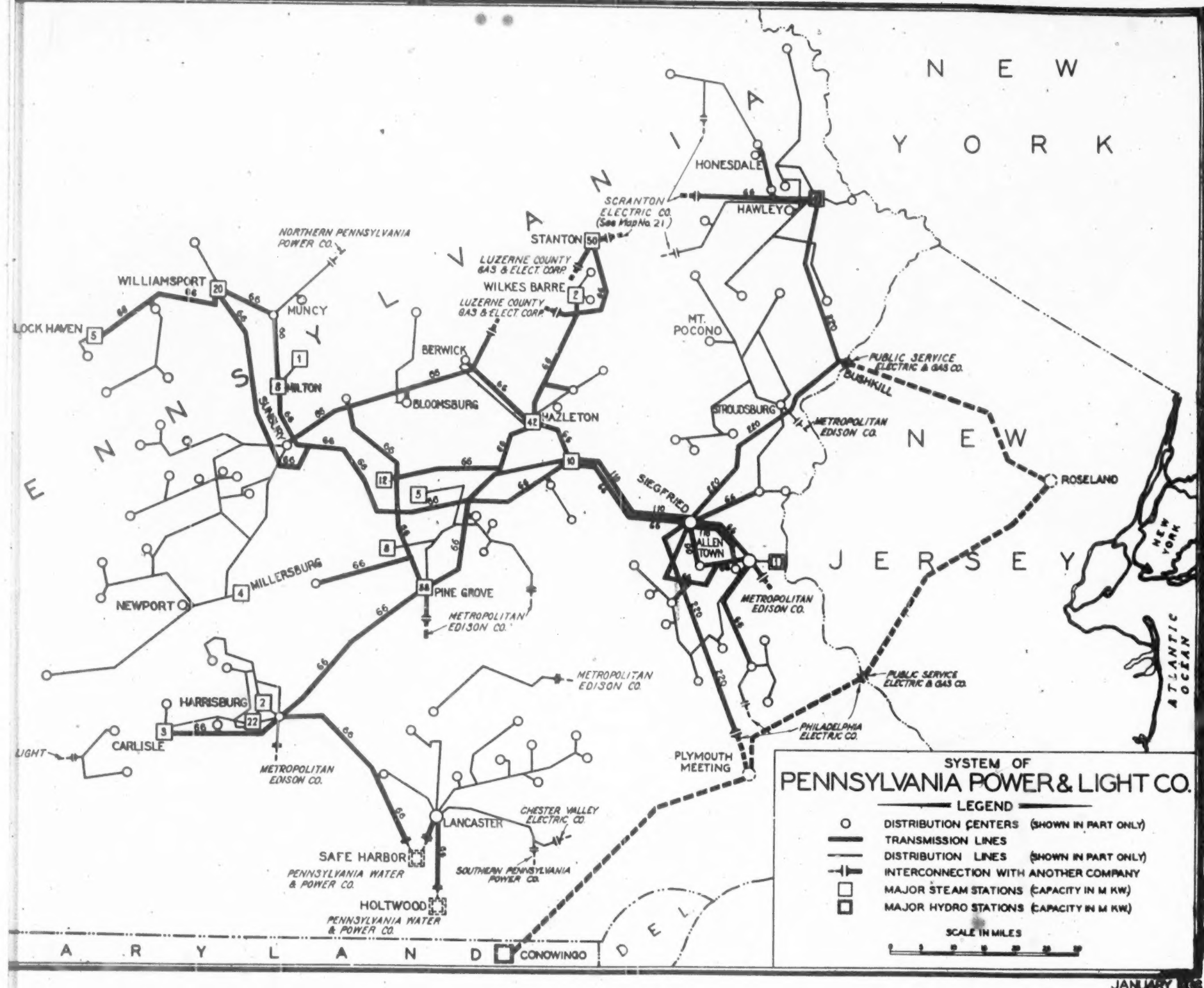
Exhibit 113

6455

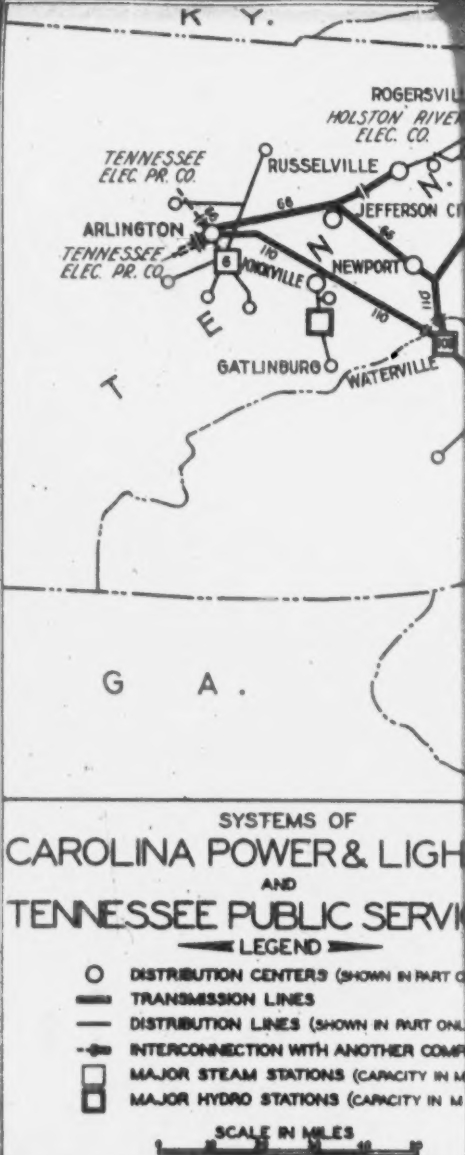
MAP No. 18.

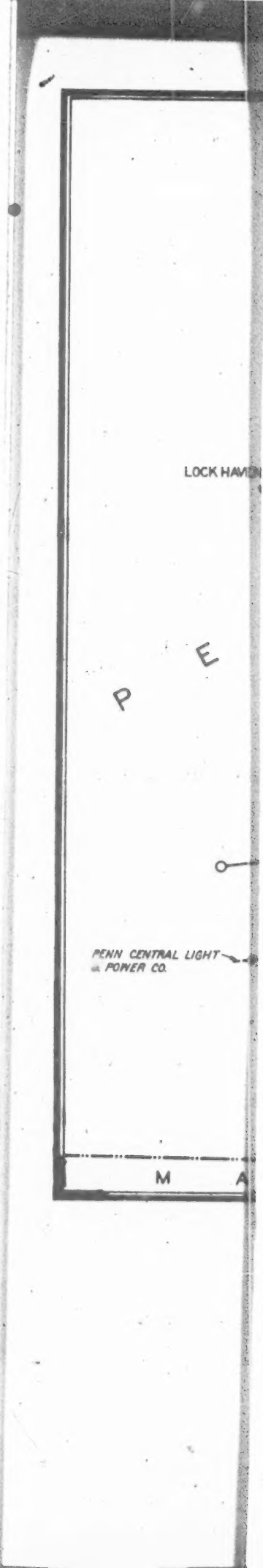
System of Pennsylvania Power & Light Co.

6456


NEW YORK
PENNSYLVANIA
NEW JERSEY
DELAWARE
MARYLAND
HONESDALE
HAWLEY
SCRANTON ELECTRIC CO. (See Map No. 21)
STANTON
LUZERNE COUNTY GAS & ELECT. CORP.
WILKES BARRE
LUZERNE COUNTY GAS & ELECT. CORP.
NORTHERN PENNSYLVANIA POWER CO.
WILLIAMSPORT
MUNCY
LOCK HAVEN
BERWICK
MILTON
SUNBURY
BLOOMSBURG
HAZLETON
MT. POCONO
PUBLIC SERVICE ELECTRIC & GAS CO.
BUSHKILL
STROUDSBURG
METROPOLITAN EDISON CO.
ROSELAND
SIEGFRIED
ALLENTOWN
NEW YORK
ATLANTIC OCEAN
MILLERSBURG
NEWPORT
PINE GROVE
METROPOLITAN EDISON CO.
METROPOLITAN EDISON CO.
PUBLIC SERVICE ELECTRIC & GAS CO.
HARRISBURG
CARLISLE
METROPOLITAN EDISON CO.
METROPOLITAN EDISON CO.
PHILADELPHIA ELECTRIC CO.
PLYMOUTH MEETING
LANCASTER
CHESTER VALLEY ELECTRIC CO.
SAFE HARBOR
PENNSYLVANIA WATER & POWER CO.
SOUTHERN PENNSYLVANIA POWER CO.
HOLTWOOD
PENNSYLVANIA WATER & POWER CO.
CONOWINGO
SYSTEM OF
PENNSYLVANIA POWER & LIGHT CO.
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONLY)
INTERCONNECTION WITH ANOTHER COMPANY
MAJOR STEAM STATIONS (CAPACITY IN M KW.)
MAJOR HYDRO STATIONS (CAPACITY IN M KW.)
SCALE IN MILES

JANUARY


K Y.
ROGERSVIL
HOLSTON RIVER
ELEC. CO.
TENNESSEE
ELEC. PR. CO.
RUSSELVILLE
JEFFERSON CI
ARLINGTON
TENNESSEE
ELEC. PR. CO.
KNOXVILLE
NEWPORT
GATLINBURG
WATERVILLE
T E N N
G A .
SYSTEMS OF
CAROLINA POWER & LIGH
AND
TENNESSEE PUBLIC SERVI
LEGEND
DISTRIBUTION CENTERS (SHOWN IN PART O
TRANSMISSION LINES
DISTRIBUTION LINES (SHOWN IN PART ONL
INTERCONNECTION WITH ANOTHER COMP
MAJOR STEAM STATIONS (CAPACITY IN M
MAJOR HYDRO STATIONS (CAPACITY IN M
SCALE IN MILES


LOCK HAVEN
P
E
PENN CENTRAL LIGHT & POWER CO.
M
A

6460

Exhibit 113

6461

MAP No. 19.

Systems of Appalachian Electric Power Company, The Ohio Power Company (in part), Kentucky & West Virginia Power Company, Kanawha Valley Power Company and Kingsport Utilities, Inc.

6462

MATCH LINE - SEE MAP Nº 20

(SEE MAP Nº 20)

O H I O

W E S T

V I R G I N I A

K E N T U C K Y

THE OHIO POWER CO

RUTLAND

POMEROY

APPALACHIAN ELEC. PR. CO.

SPRINGHAN

COTTAGEVILLE

RIPLEY

PORTSMOUTH

THE OHIO POWER CO

WURTLAND

BELLEPOINT

KENTUCKY & WEST VIRGINIA PR. CO.

SO. POINT

HURRICANE

CLENDENIN

HARTLAND

CHARLESTON

KANAWHA VALLEY POWER COMPANY

HALDEMAN

KENOVA

APPALACHIAN EL. PR. CO.

WAYNE

TURNER

IVATON

LONDON

CABIN CREEK

HOPKINS PK.

MADISON

STONE BR.

MC CLUNG

ANJEAN

CANEY

MEADOW BRIDGE

EDWIGHT

THREE FORKS

PROSPERITY

BECKLEY

BOWYER

PAINTSVILLE

KERMIT

LOGAN

KENTUCKY & WEST VIRGINIA PR. CO.

PRESTONSBURG

WILLIAMSON

SPRIGG

GLENALUM

MULLENS

JACKSON

LACKEY

OCTAVIA

BEAVER CR.

KENTUCKY & WEST VIRGINIA PR. CO.

COALWOOD

SWITCHBACK

PRINCETON

GLENLYN

ROANOKE

NIAGARA

HARDBURLY

SOLAR

ELWOOD

HAZARD

PEABODY

BLACKHORN CITY

GRUNDY

FARADAY

BLUEFIELD

CARBON GLEN

FLEMING

APPALACHIAN ELEC. PR. CO

MOSS

COAL CR.

PULASKI

ROCKY MOUNT

CLINCHFIELD

SALTVILLE

IVANHOE

BUCK

BYLLESBY

BASSETT

FIELDALE

GAS CITY

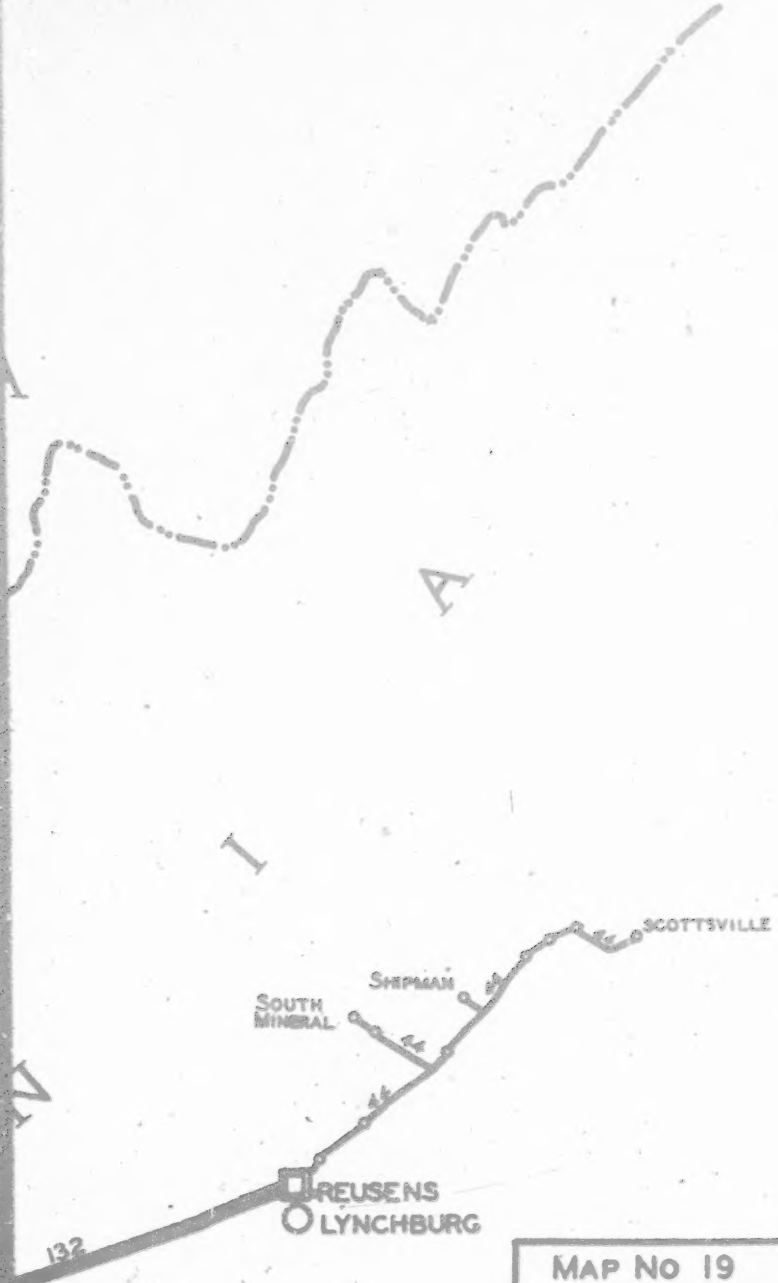
APPALACHIAN ELEC. PR. CO

KINGSPORT

Kentucky Virginia

West Virginia Virginia

SOUTH MINERAL



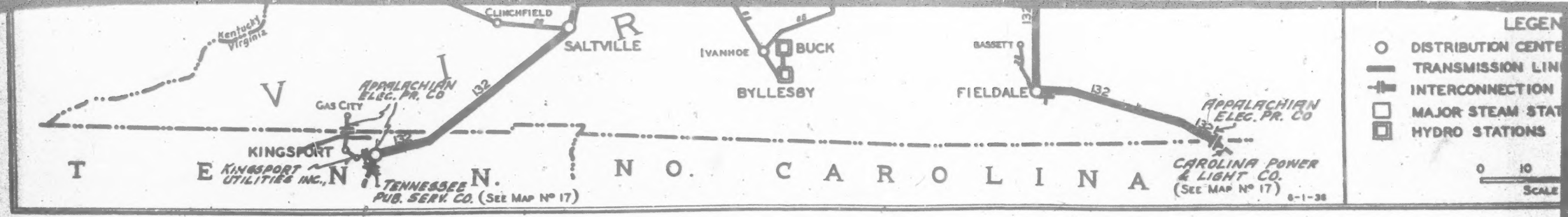
MAP NO 19

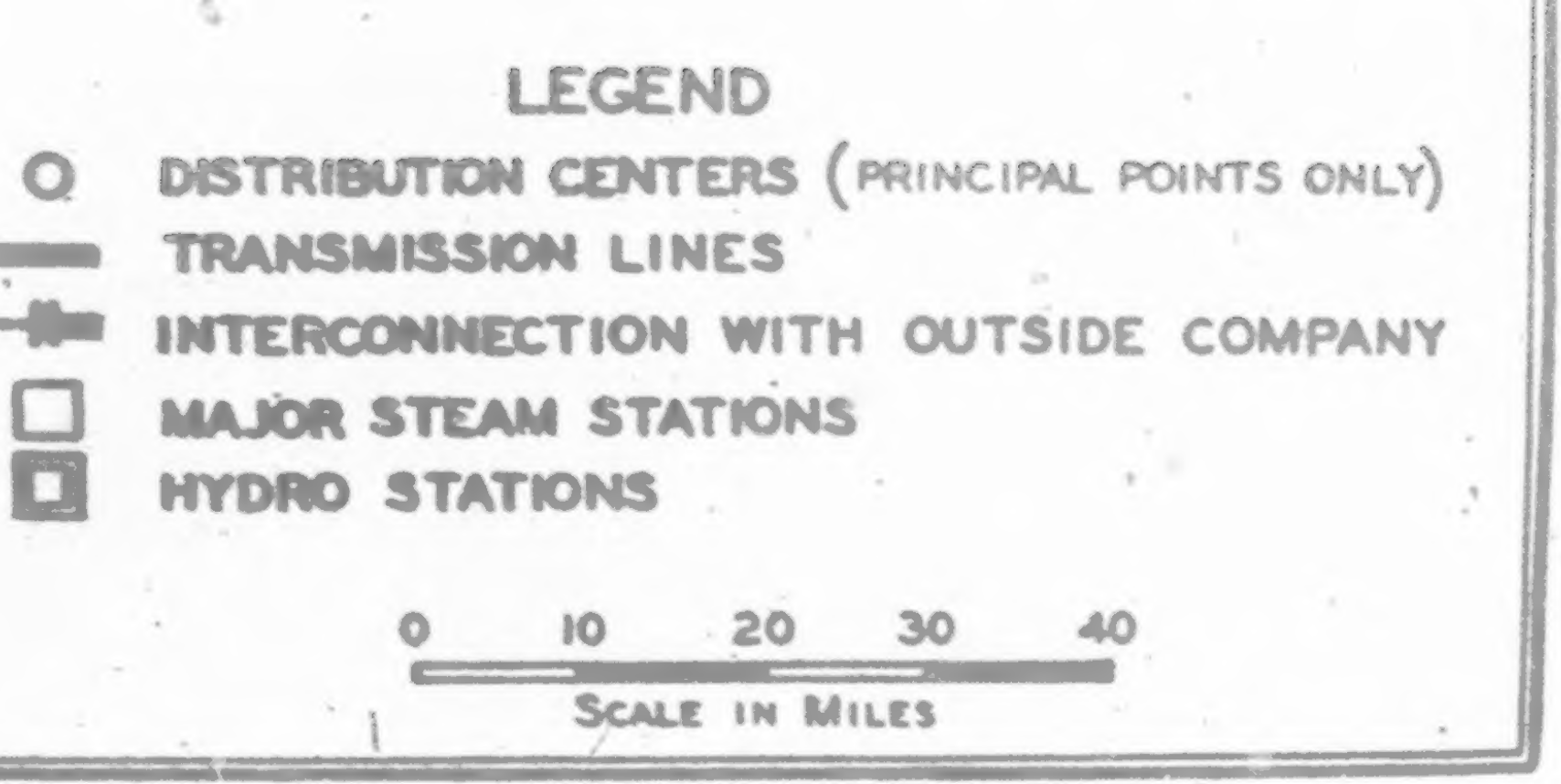
SYSTEMS OF

APPALACHIAN ELECTRIC POWER COMPANY
THE OHIO POWER COMPANY (IN PART)
KENTUCKY & WEST VIRGINIA POWER COMPANY
KANAWHA VALLEY POWER COMPANY
KINGSPORT UTILITIES. INC

LEGEND

- O DISTRIBUTION CENTERS (PRINCIPAL POINTS ONLY)
- TRANSMISSION LINES
- INTERCONNECTION WITH OUTSIDE COMPANY
- MAJOR STEAM STATIONS
- HYDRO STATIONS


Kentucky
Virginia
CLINCHFIELD
SALTVILLE
R
I
V
APPALACHIAN
ELEC. PR. CO
GAS CITY
132
KINGSPORT
KINGSPORT
UTILITIES INC.,
T E N N.
TENNESSEE
PUB. SERV. CO. (SEE MAP Nº 17)
IVANHOE
BUCK
BYLLESBY
BASSETT
FIELDALE
132
APPALACHIAN
ELEC. PR. CO
132
CAROLINA POWER
& LIGHT CO.
(SEE MAP Nº 17)
N O. C A R O L I N A
6-1-38
LEGEN
DISTRIBUTION CENTE
TRANSMISSION LIN
INTERCONNECTION
MAJOR STEAM STAT
HYDRO STATIONS
0 10
SCALE


LEGEND
DISTRIBUTION CENTERS (PRINCIPAL POINTS ONLY)
TRANSMISSION LINES
INTERCONNECTION WITH OUTSIDE COMPANY
MAJOR STEAM STATIONS
HYDRO STATIONS
0 10 20 30 40
SCALE IN MILES

6466

Exhibit 118

6467

MAP No. 20.

Systems of Indiana & Michigan Electric Company, Indiana General Service Company, The Ohio Power Company (in part) and Wheeling Electric Company.

6488

MAP No. 20

SYSTEMS OF
INDIANA & MICHIGAN ELECTRIC COMPANY
INDIANA GENERAL SERVICE COMPANY
THE OHIO POWER COMPANY (IN PART)
WHEELING ELECTRIC COMPANY

LEGEND
- DISTRICT CENTERS (PRINCIPAL POINTS ONLY)
- TRANSMISSION LINES
- INTERCONNECTION WITH OUTSIDE COMPANY
- MAJOR STEAM STATIONS
- HYDRO STATIONS

0 10 20 30 40
SCALE IN MILES

LAKE MICHIGAN
MICHIGAN
LAKE ERIE
INDIANA
OHIO
W. VA.
PENN.

BANGOR
COVERT
HARTFORD
RIVERSIDE
BENTON HARBOR
INDIAN LAKE
MICH. GAS & EL. CO
IND. & MICH ELEC. CO.
HINCHMAN
BERRIEN SPRINGS
NILES
LAKESIDE
NEW BUFFALO
BUCHANAN
MICHIGAN INDIANA & OHIO
MICH. GAS & EL. CO
ELKHART
NO. INDIANA PUB. SERV. CO.
NEW CARLISLE
SOUTH BEND
TWIN BRANCH
LAKEVILLE
LIGONIER
PORTE GAS & EL. CO.
INDIANA & MICH. EL. CO.
PLYMOUTH
NO. INDIANA PUB. SERV. CO.
BUTLER
THE OHIO POWER CO.
IND. & MICH EL. CO.
HICKSVILLE
FT WAYNE
HARLAN
IND. SERV. CORP.
IND. & MICH. ELEC. CO.
HAVILAND
VAN WERT
THE OHIO POWER CO.
LEIPSIC
OTTAWA
THE OHIO POWER CO.
LIMA
CENTRAL OHIO LT. & PR. CO.
ADA
FOREST
RENTON
HARPSTER
MARION
IND. & MICH. EL. CO.
IND. GEN SERV. CO.
IND. & MICH EL. CO.
MONTPELIER
HARTFORD CITY
NO. IND. PR. CO.
SUMMITVILLE
EATON
DUNKIRK
ELWOOD
ALEXANDRIA
DE SOTO
INDIANA GEN. SERV. CO.
MUNCIE
ELM RIDGE
NO. INDIANA PUB. CO.
TOLEDO EDISON CO.
PEMBERVILLE
THE OHIO POWER CO.
THE LAKE SHORE ELEC. RY. CO.
FREMONT
HOLLAND
FOSTORIA
TIFFIN
SHELBY
HOWARD
MC CLAREN
LEXINGTON
OHIO PUBLIC SERV. CO.
THE OHIO PR. CO.
GLENMONT
BALTIC
COSHOCTON
NEWCOMERSTOWN
CONESVILLE
GRANVILLE
NEWARK
SOU. OHIO PUB. SERV CO
OHIO POWER CO.
ZANESVILLE
CAMBRIDGE
SENECAVILLE
BALTIMORE
LANCASTER
NEW LEXINGTON
PHILO
CROOKSVILLE
SHARPSBURG
MALTA
LOGAN
THE OHIO PR. CO.
SOU. OHIO PR. CO.
MILLFIELD
(SEE MAP Nº 19)
OHIO EDISON CO
THE OHIO POWER CO
OHIO PUBLIC SERV. CO.
CANTON
ORRVILLE
SPARTA
TRASBURG
N. PHILADELPHIA
TWIN CITY
DENNISON
HOPEDALE
CALCUTTA
SUMMITVILLE
E. LIVERPOOL
DUQUESNE LIGHT CO.
MONONGAHELA WEST PENN. PUB. SERV. CO.
THE OHIO PR. CO.
WINDSOR
WEST PENN POWER CO.
WHEELING ELEC. CO
WHEELING
FLUSHING
MIDWAY
BARNESVILLE
THE OHIO PR. CO.
DILLES BOTTOM
POWHATTAN PT.
CLARINGTON
MOUNDSVILLE
WHEELING ELEC. CO.
MONONGAHELA WEST PENN. PUB. SERV. CO.
MICHIGAN INDIANA & OHIO
INDIANA OHIO
OHIO W. VA.

MATCH LINE - SEE MAP Nº 19

6-1-36

6472

Exhibit 113

6473

MAP No. 21.

Systems of The Scranton Electric Co. and Atlantic City Electric Co.

6474

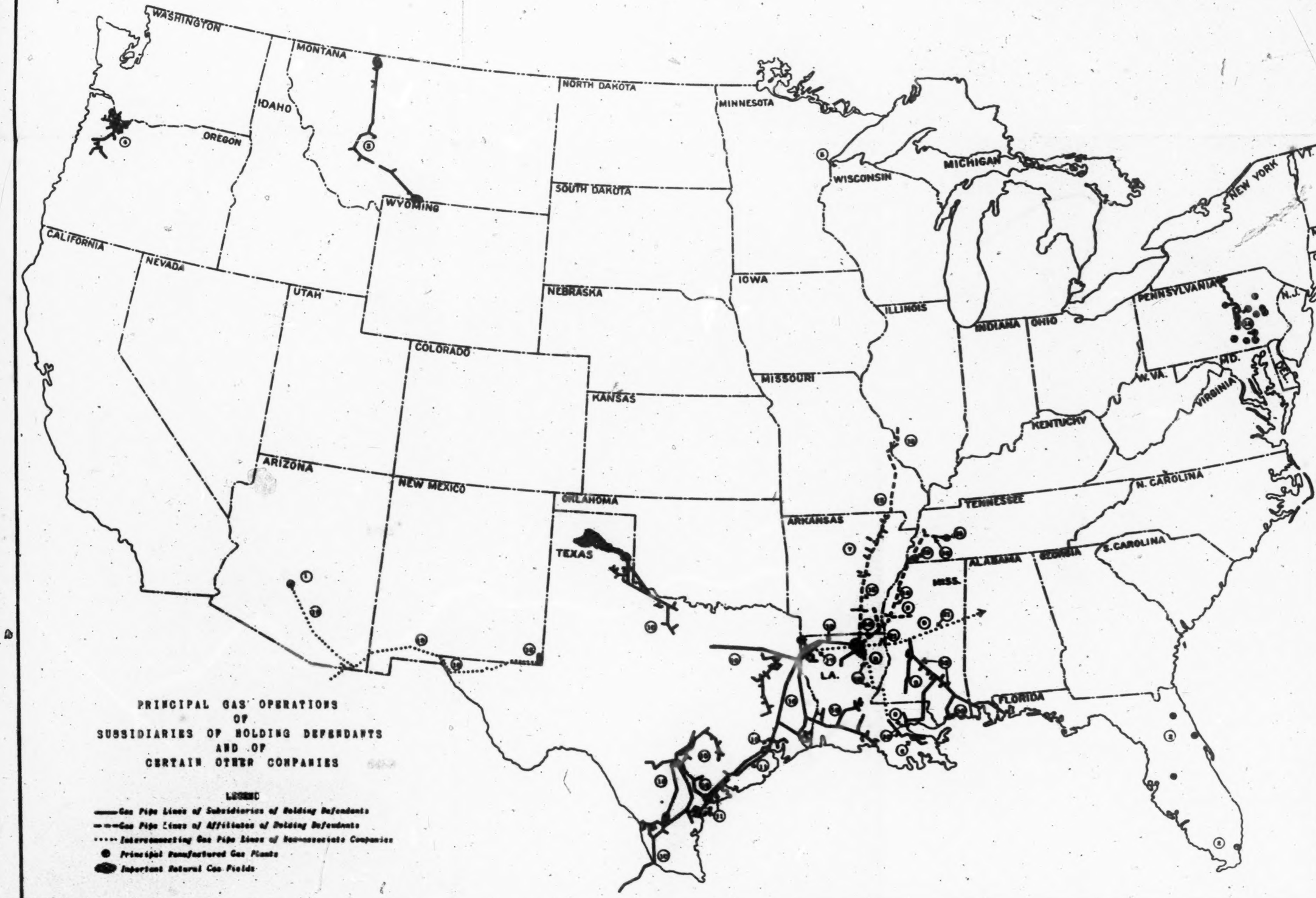
6478

Exhibit 114

6479

Principal Gas Operations of Subsidiaries of Holding Defendants and of Certain Other Companies.

6480



PRINCIPAL GAS OPERATIONS
OF
SUBSIDIARIES OF HOLDING DEFENDANTS
AND OF
CERTAIN OTHER COMPANIES

LEGEND

- Gas Pipe Lines of Subsidiaries of Holding Defendants
- Gas Pipe Lines of Affiliates of Holding Defendants
- Interconnecting Gas Pipe Lines of Non-associate Companies
- Principal Manufactured Gas Plants
- Important Natural Gas Fields

SUBSIDIARIES OF HOLDING DEFENDANTS

AMERICAN POWER & LIGHT COMPANY

1. Central Arizona Light and Power Co.
2. Florida Power & Light Company
3. The Montana Power Company
   Montana Power Gas Company
4. Portland Gas & Coke Company
5. Superior Water, Light and Power Co.*

ELECTRIC POWER & LIGHT CORPORATION

6. New Orleans Public Service Co. Inc.
7. Arkansas Power & Light Company*
8. Louisiana Power & Light Company*
9. Mississippi Power & Light Company*

UNITED GAS CORPORATION

10. United Gas Public Service Co. System
11. Houston Gulf Gas Company
    Houston Gas and Fuel Company

NATIONAL POWER & LIGHT COMPANY

12. Pennsylvania Power & Light Co. System
13. Memphis Power & Light Company
14. West Tennessee Power & Light Co.

AFFILIATES OF HOLDING DEFENDANTS

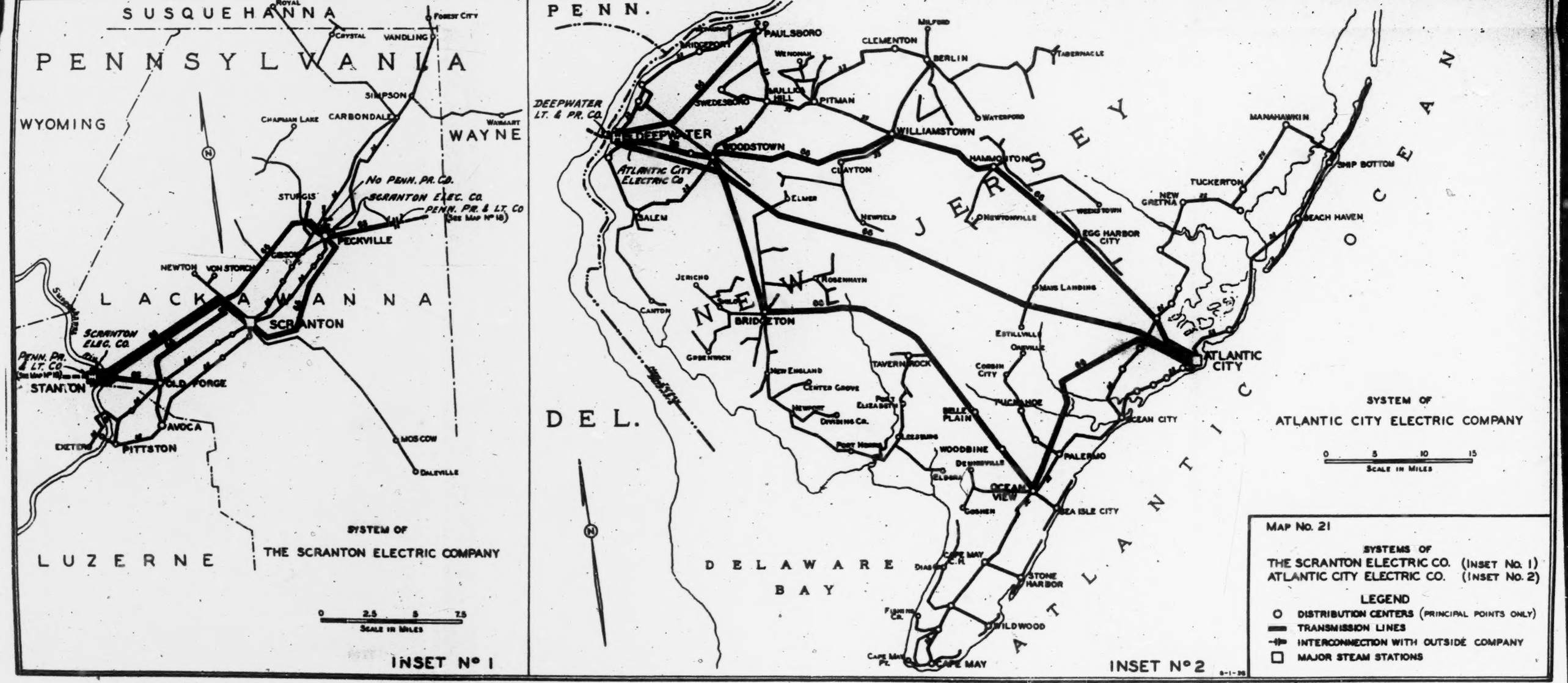
15. Mississippi River Fuel Corporation
16. Memphis Natural Gas Company

INTERCONNECTING NON-ASSOCIATE COMPANIES

17. Arkansas-Louisiana Gas Company
18. El Paso Natural Gas Company
19. Western Gas Company
20. Interstate Natural Gas Company, Inc.
21. Southern Natural Gas Company

*PROPERTIES NOT SHOWN IN DETAIL ON MAP

D.139


SUSQUEHANNA
PENNSYLVANIA
WYOMING
LUZERNE
LACKAWANNA
WAYNE
SUSQUEHANNA RIVER
ROYAL
FOREST CITY
CRYSTAL
VANDLING
SIMPSON
CHAPMAN LAKE
CARBONDALE
WAYMART
STURGIS
No PENN. PR. CO.
SCRANTON ELEC. CO.
PENN. PR. & LT. CO (SEE MAP Nº 18)
PECKVILLE
NEWTON
VON STORCH
SCRANTON
SCRANTON ELEC. CO.
PENN. PR. & LT. CO (SEE MAP Nº 18)
STANTON
OLD FORGE
AVOCA
EXETER
PITTSTON
MOSCOW
DALEVILLE
SYSTEM OF
THE SCRANTON ELECTRIC COMPANY
0 2.5 5 7.5
SCALE IN MILES
INSET Nº 1
PENN.
DEL.
DEEPWATER LT. & PR. CO.
ATLANTIC CITY ELECTRIC CO
DEEPWATER
BRIDGEPORT
PAULSBORO
WENONAH
CLEMENTON
MILFORD
BERLIN
TABERNACLE
SWEDESBORO
MULLICA HILL
PITMAN
WATERFORD
WILLIAMSTOWN
WOODSTOWN
CLAYTON
HAMMONTON
MANAHAWKIN
SHIP BOTTOM
TUCKERTON
NEW GRETNA
BEACH HAVEN
ELMER
SALEM
NEWFIELD
NEWTONVILLE
WEEKSTOWN
EGG HARBOR CITY
JERSEY
JERICHO
ROSENHAYN
MAYS LANDING
NEWFIELD
CANTON
BRIDGETON
ESTELLVILLE
ATLANTIC CITY
GREENWICH
NEW ENGLAND
TAVERN ROCK
CORBIN CITY
CENTER GROVE
PORT ELIZABETH
MILLVILLE
PLEASANTVILLE
OCEAN CITY
NEWPORT
DIVIDING CO.
PORT NORRIS
LEESBURG
WOODBINE
PALERMO
DENNISVILLE
ELDORA
OCEAN VIEW
GOSHEN
SEA ISLE CITY
CAPE MAY C.H.
DIAS
STONE HARBOR
FISHING CR.
WILDWOOD
CAPE MAY PT.
CAPE MAY
DELAWARE BAY
ATLANTIC OCEAN
SYSTEM OF
ATLANTIC CITY ELECTRIC COMPANY
0 5 10 15
SCALE IN MILES
INSET Nº 2
8-1-38
MAP No. 21
SYSTEMS OF
THE SCRANTON ELECTRIC CO. (INSET No. 1)
ATLANTIC CITY ELECTRIC CO. (INSET No. 2)
LEGEND
DISTRIBUTION CENTERS (PRINCIPAL POINTS ONLY)
TRANSMISSION LINES
INTERCONNECTION WITH OUTSIDE COMPANY
MAJOR STEAM STATIONS

6484

Exhibit 116

6485

MAP No. 1.

National Gas Operations of United Company Systems and of Certain Other Companies in the Region.

6486

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PAGE

NATURAL GAS OPERATIONS OF UNITED GAS PUBLIC SERVICE COMPANY SYSTEM AND OF CERTAIN OTHER COMPANIES IN THE REGION

KANSAS
MISSOURI
ILL.
IND.
KY.
OKLAHOMA
ARKANSAS
TENNESSEE
MISSISSIPPI
ALABAMA
TEXAS
LOUISIANA
FLA.

LEGEND

UNITED GAS PUBLIC SERVICE COMPANY SYSTEM

- Principal Natural Gas Pipe Lines
- Principal Gas Compressor Stations
- Principal Communities Served at Retail
- Principal Communities Served at Wholesale

OTHER COMPANIES IN THE REGION

- Natural Gas Pipe Lines of Affiliates of Holding Defendants
- Interconnecting Natural Gas Pipe Lines of Non-associate Companies
- Communities Served at Retail by Subsidiaries of Holding Defendants Which Are Not Subsidiaries of United Gas Public Service Company
- Manufactured Gas Plants Used for Peak or Stand-by Service
- IMPORTANT NATURAL GAS FIELDS

MAJOR COMPANIES IN THE UNITED GAS PUBLIC SERVICE COMPANY SYSTEM AND OTHER ASSOCIATE COMPANIES

1. United Gas Public Service Company
2. Northern Texas Utilities Company
3. Southern Gas Utilities, Inc.
4. Southern Gas & Fuel Company
5. Compania Mexicana de Gas, S.A.
6. Houston Gulf Gas Company / Houston Gas and Fuel Company
7. Arkansas Power & Light Company
8. Louisiana Power & Light Company
9. Mississippi Power & Light Company
10. New Orleans Public Service Company Inc.
11. Memphis Power & Light Company
12. East Tennessee Power & Light Company

AFFILIATES OF HOLDING DEFENDANTS

13. Mississippi River Fuel Corporation
14. Memphis Natural Gas Company

INTERCONNECTING NON-ASSOCIATE COMPANIES

15. Arkansas-Louisiana Gas Company
16. Interstate Natural Gas Company, Inc.
17. Southern Natural Gas Company

6490

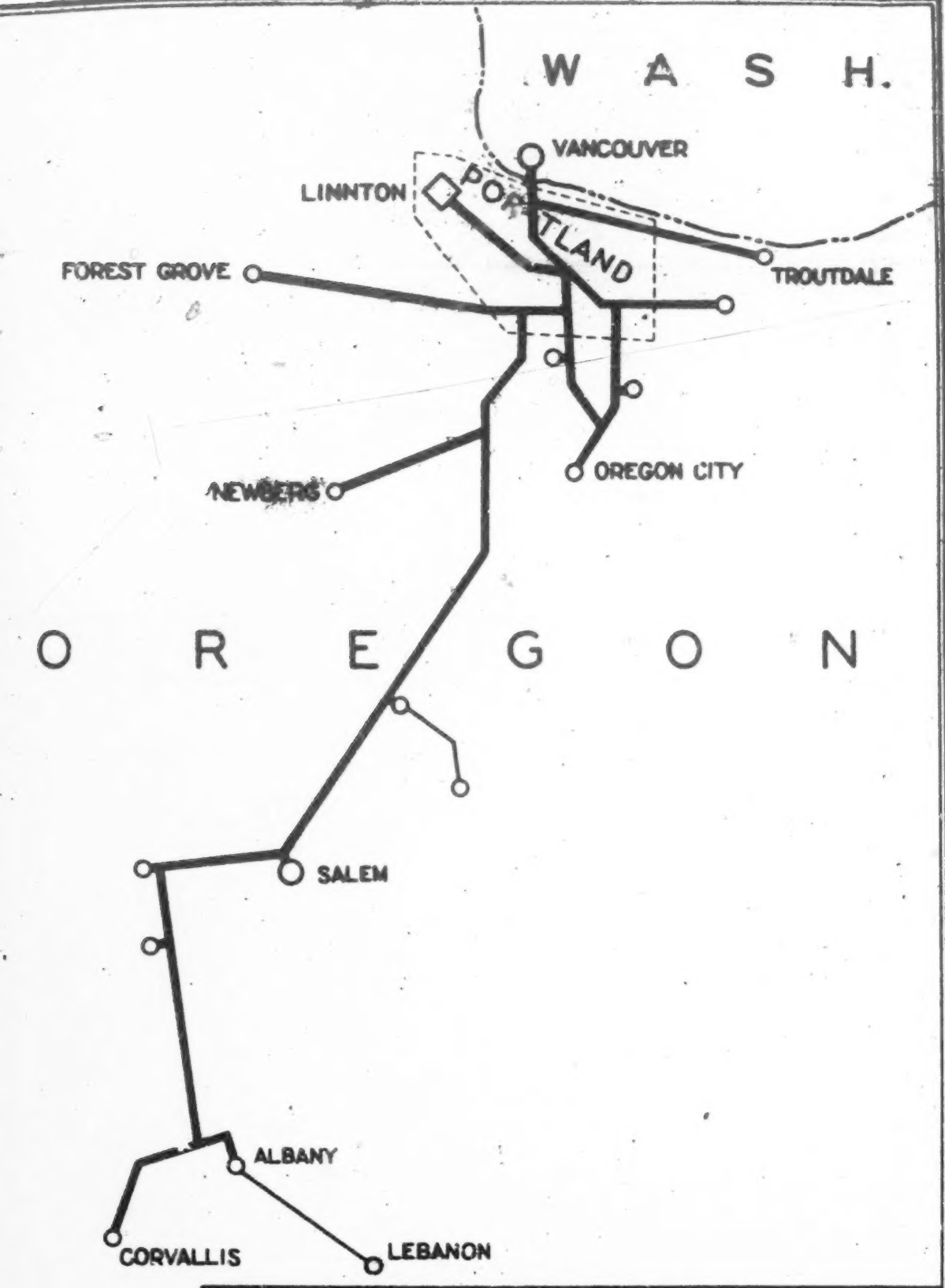
Exhibit 116

6491

MAP No. 2.

System of Portland Gas & Coke Company.

6492



SYSTEM OF

PORTLAND GAS & COKE CO.

LEGEND

- DISTRIBUTION CENTERS (SHOWN IN PART ONLY)
- HIGH PRESSURE LINES
- LOW PRESSURE LINES (SHOWN IN PART ONLY)
- GAS WORKS

SCALE IN MILES

0 5 10 20 30

Vol. VIII

TRANSCRIPT OF RECORD

Supreme Court of the United States

OCTOBER TERM, 1937

No. 636

ELECTRIC BOND AND SHARE COMPANY, AMERICAN GAS AND ELECTRIC COMPANY AND AMERICAN POWER & LIGHT COMPANY, ET AL., PETITIONERS,

vs.

SECURITIES AND EXCHANGE COMMISSION, HOMER S. CUMMINGS, INDIVIDUALLY AND AS ATTORNEY GENERAL OF THE UNITED STATES, ET AL.

ON WRIT OF CERTIORARI TO THE UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

PETITION FOR CERTIORARI FILED DECEMBER 14, 1937.

CERTIORARI GRANTED JANUARY 3, 1938.

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